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# SIEMENS
Medical Solutions

**Übersichtsblatt / Overview sheet**
Schaltplan / Wiring diagram

Erzeugnis / Product:
## ARCADIS Varic

**Typ-Nr.**
**G2266**

| Sach-Nr. / Typ-Nr. | Index | A | B | C | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rev | 01 | 01 | 01 | | | | | | | | | | | | | | |
| | Bl.-Nr | U-Stand bzw. Ausführungs-Nr. | | | | | | | | | | | | | | | | |
| | 01A | 00 | 01 | 02 | | | | | | | | | | | | | | |
| | 01B | -- | -- | 02 | | | | | | | | | | | | | | |
| | 1 | 1 | 2 | 3 | | | | | | | | | | | | | | |
| | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 2A | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 3 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 3A | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 3B | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 3C | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 4 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 4A | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 5 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 6 | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 6A | -- | -- | 1 | | | | | | | | | | | | | | |
| | 7 | 1 | 2 | 3 | | | | | | | | | | | | | | |
| | 7A | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 8 | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 9 | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 10 | 1 | 2 | 3 | | | | | | | | | | | | | | |
| | 10A | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 20 | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 21 | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 22 | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 23 | 1 | 2 | 3 | | | | | | | | | | | | | | |
| | 24 | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 30 | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 30A | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 30B | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 30C | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 30D | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 31 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 32 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 33 | 1 | 1 | 2 | | | | | | | | | | | | | | |
| | 33A | -- | -- | 1 | | | | | | | | | | | | | | |
| | 33B | -- | -- | 1 | | | | | | | | | | | | | | |
| | 34 | -- | 1 | -- | | | | | | | | | | | | | | |
| | 40 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| | 40A | 1 | 2 | 3 | | | | | | | | | | | | | | |

| Änd.-Nummer | Datum | Ersteller Abteilung |
|---|---|---|
| --- | 14.05.04 | Singer SP PLM S 4 |
| Druck-Nr. Index **A** | | |
| SPR2-310.844.01.01.05 | | |
| 136762 | 15.07.04 | Singer SP PLM S 4 |
| Druck-Nr. Index **B** | | |
| SPR2-310.844.01.02.05 | | |
| 160296 | 13.07.05 | Singer SP PLM S 4 |
| Druck-Nr. Index **C** | | |
| SPR2-310.844.03.01.02 | | |

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| Sachnummer | U-Art | Index | U-Stand | Typennummer |
|---|---|---|---|---|
| 80 80 017 | EFS | - 01S - | 02 - | G2266 |

| Ersatz für: | ------- | Blatt 01A |
|---|---|---|

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Medical Solutions

**Übersichtsblatt / Overview sheet**
Schaltplan / Wiring diagram

Erzeugnis / Product:
**ARCADIS Varic**

**Typ-Nr.**
**G2266**

| Sach-Nr. / Typ-Nr. | Index / Rev / Bl.-Nr | A / 01 | B / 01 | C / 01 |
|---|---|---|---|---|
| | | U-Stand bzw. Ausführungs-Nr. | | |
| | 41 | 1 | 1 | 1 |
| | 41A | 1 | 1 | 1 |
| | 100 | 1 | 2 | 3 |

| Änd.-Nummer | Datum | Ersteller Abteilung |
|---|---|---|
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| 160296 | 13.07.05 | Singer SP PLM S 4 |
| Druck-Nr. Index **C** SPR2-310.844.03.01.02 | | |

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| Sachnummer | U-Art | Index | U-Stand | Typennummer |
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| Ersatz für: | ------- | Blatt 01B |
|---|---|---|

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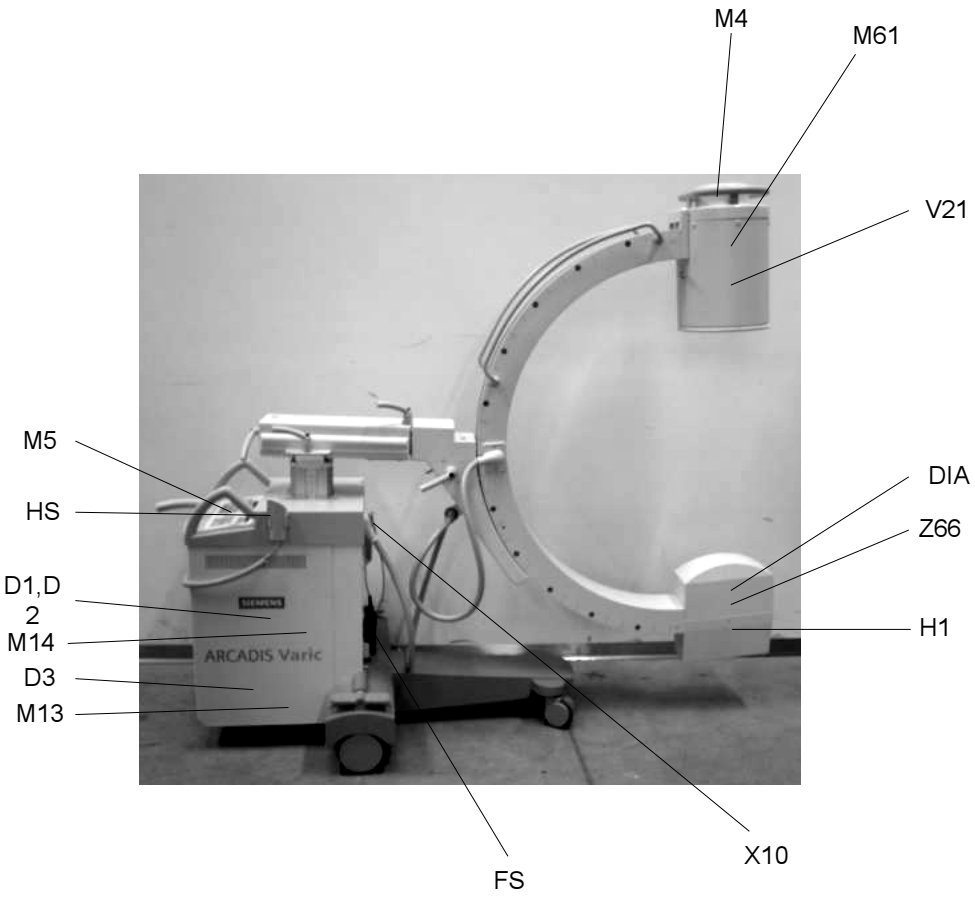


| | |
|---|---|
| D1 | Steuerplatine / *Control board* |
| D2 | Leistungsplatine / *Power board* |
| D3 | Schnittstellenplatine / *Interface board* |
| DIA | Diamentor / *Diamentor* |
| FS | Fussschalter / *Foot switch* |
| H1 | Eintank / *Single tank* |
| HS | Handschalter / *Manual switch* |
| M4 | Kameraeinheit / *Camera unit* |
| M5 | Bedienpult / *Control panel* |
| M13 | Kameranetzteil / *Camera power supply* |
| M14 | Schaltnetzteil / *Switched power supply* |
| M61 | BV-Minispannungsversorgung / *l.l. mini power supply* |
| V21 | Bildverstärker / *Image intensifier* |
| X10 | Zentralstecker / *Central connector* |
| Z66 | Tiefenblende / *Collimator* |

Baugruppenübersicht Chassis / *Subassembly overview basic unit*

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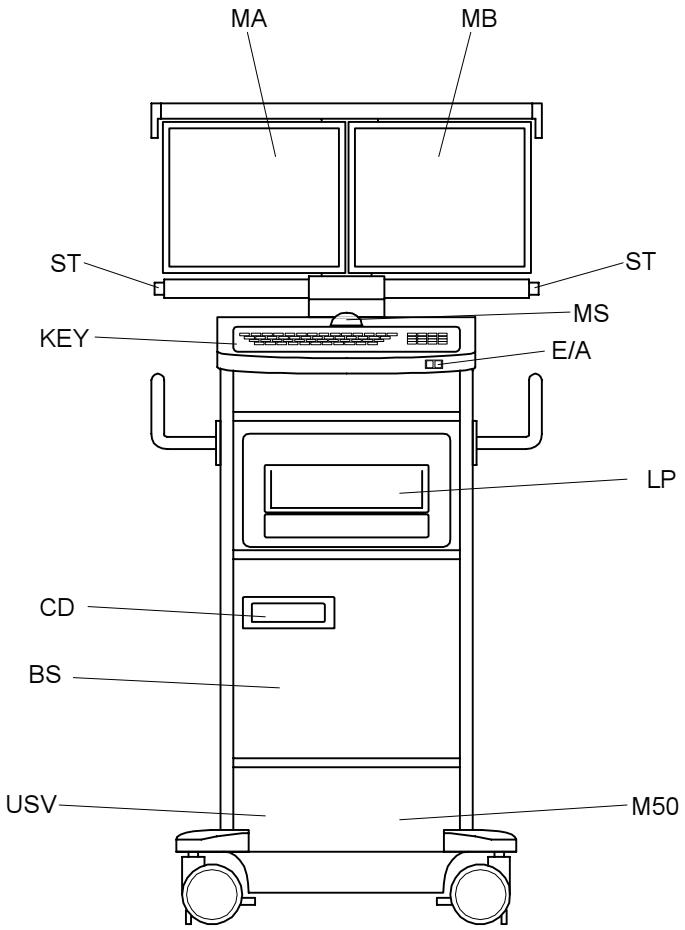


| | |
|---|---|
| BS | Bildsyste*m / Imaging system* |
| CD | CD-Laufwerk / *CD drive* |
| LP | Lokaler Printer / *Local printer* |
| E/A | Ein-, Ausschalter / *On, off switch* |
| KEY | Tastatur / *Keyboard* |
| MA | TFT-Monitor A (live) / *TFT Screen A (live)* |
| MB | TFT-Monitor B (Referenz) / *TFT Screen B (reference)* |
| MS | PC-Maus / *PC mouse* |
| M50 | Einschaltbaugruppe (D50, D51) / *Power-on unit (D50, D51)* |
| ST | Strahlungsanzeige / *Radiadion display* |
| USV | Unterbrechungsfreie Stromversorgung / *uninterruptable power supply (ups)* |

Baugruppenübersicht Trolley / *Subassembly overview trolley*

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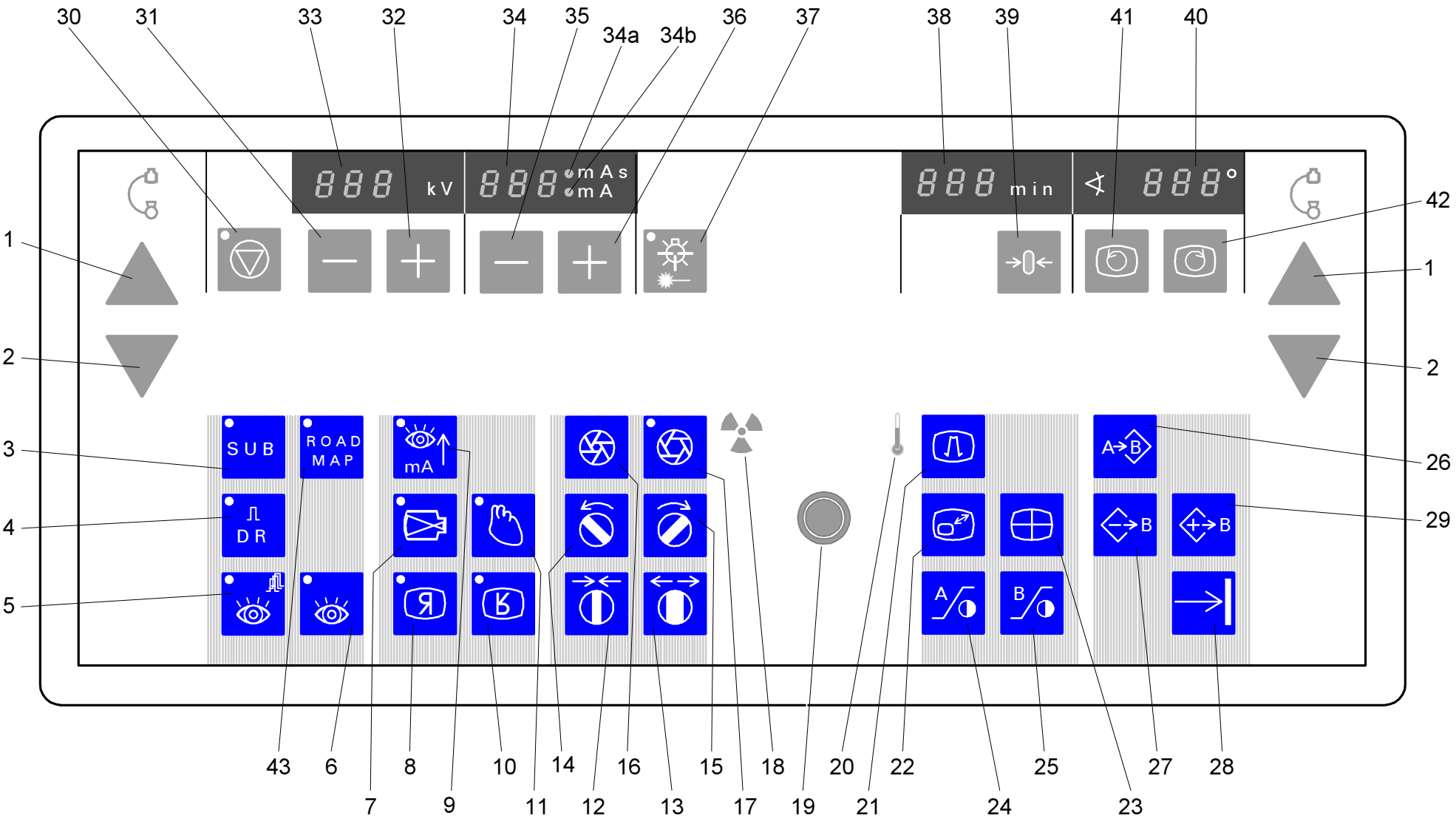


Bedienpult Chassis / *Control panel basic unit*

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| **Taste / *Key*** | **Funktion / *Function*** |
|---|---|
| 1 | Hubsäule heben / *Lifting column upwards* |
| 2 | Hubsäule senken / *Lifting column downwards* |
| 3 | Subtraktion (mit LED) / *Subtraction (with LED)* |
| 4 | Digitale Radiographie (mit LED) / *Digital radiography (with LED)* |
| 5 | Gepulste Durchleuchtung (mit LED) / *Digital radiography (with LED)* |
| 6 | Durchleuchtung (mit LED) / *Fluoroscopy (with LED)* |
| 7 | BV-Zoom (mit LED) / *Image intensifier zoom (with LED)* |
| 8 | Bildumkehr links/rechts (mit LED) / *Image reversal horizontal (with LED)* |
| 9 | Hochkontrast-Durchleuchtung (mit LED) / *High-contrast fluoroscopy (with LED)* |
| 10 | Bildumkehr oben/unten (mit LED) / *Image reversal vertical (with LED)* |
| 11 | Anwahl des Rauschunterdrückungsfaktors (mit LED) / *Selection of noise reduction factor (with LED)* |
| 12 | Schlitzblende schließen / *Close slot diaphrams* |
| 13 | Schlitzblende öffnen / *Open slot diaphragms* |
| 14 | Schlitzblende links drehen / *Turn slot diaphragms to left* |
| 15 | Schlitzblende rechts drehen / *Turn slot diaphragms to right* |
| 16 | Irisblende schließen / *Close iris diaphragm* |
| 17 | Irisblende öffnen (mit LED) / *Open iris diaphragm (with LED)* |
| 19 | Anlage ausschalten / *System off* |
| 21 | Kantenanhebung / *Edge enhancement* |
| 22 | Elektronik-Zoom / *Electronic zoom* |
| 23 | Monitor Split / *Monitor split* |
| 24 | Kontrasteinstellung Monitor A / *Contrast setting monitor A* |
| 25 | Kontrasteinstellung Monitor B / *Contrast setting monitor B* |
| 26 | Bild abspeichern / *Store image* |
| 27 | Bild vom Speicher lesen (-) / *Read image from memory (-)* |
| 28 | Auslösen Dokumentationseinheit / *Relaese of archiving unit* |
| 29 | Bild vom Speicher lesen (+) / *Read image from memory (+)* |
| 30 | kV-Regelung stop (mit LED) / *kV control stop (with LED)* |
| 31 | kV(mA)-Verstellung (-) / *kV(mA) setting (-)* |
| 32 | kV(mA)-Verstellung (+) / *kV(mA) setting (+)* |
| 35 | mAs-Verstellung (-) / *mAs setting (-)* |
| 36 | mAs-Verstellung (+) / *mAs setting (+)* |
| 37 | Laser-Lichtvisier (mit LED) / *Laser light localizer (with LED)* |
| 39 | Rückstellung DL-Summer / *Reset of FL buzzer* |
| 41 | Bild-Drehung links / *Image rotation to left* |
| 42 | Bild-Drehung rechts / *Image rotation to right* |
| 43 | Roadmap (mit LED) / *Roadmap (with LED)* |

Funktion der Bedientasten / *Function of control keys*

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## Tasten LEDs (rot) / *Key LEDs (red)*

| **LED in Taste/ LED in key** | **Funktion / *Function*** |
|---|---|
| 3 | Leuchtet bei Anwahl Subtraktion / *Lights up with selection of subtraction* |
| 4 | Leuchtet bei Anwahl Digitale Radiographie / *Lights up with selection of Digitale Radiographie* |
| 5 | Leuchtet bei Anwahl Gepulste Durchleuchtung / *Lights up with selection of pulsed fluoroscopy* |
| 6 | Leuchtet bei Anwahl Durchleuchtung / *Lights up with selection of fluoroscopy* |
| 7 | Leuchtet bei Anwahl BV / *Lights up with selction of I.I. zoom* |
| 8 | Leuchtet bei Anwahl Bildumkehr links/rechts / *Lights up with selection of image reversal horizontal* |
| 9 | Hochkontrast-Durchleuchtung (mit LED) / *Contrast fluoroscopy (with LED)* |
| 10 | Leuchtet bei Anwahl Bildumkehr oben/unten / *Lights up with selection of image reversal vertical* |
| 11 | Leuchtet bei Anwahl eines kleineren K-Faktors / *Lightsup with selection of small k factor* |
| 17 | Leuchtet wenn Irisblende in Aufnahmestellung ganz offen ist / *Lights up if iris daphragm is completely open in the radiographic mode* |
| 30 | Leuchtet wenn kV-Regelung im Stop-Betrieb ist / *Lights up if kV control is in stop mode* |
| 37 | Leuchtet wenn Laser-Lichtvisier eingeschaltet ist / *Lights up if laser light localizer is switched on* |
| 43 | Leuchtet bei Anwahl der SUB-Betriebsart „Road Map“ / *Lights up with selection of SUB operating mode „Road Map“* |

## LEDs in der Anzeige (rot) / *LEDs in the display (red)*

| **LED in Taste/ *LED in key*** | **Funktion / *Function*** |
|---|---|
| 34a | Leuchtet bei Anwahl Aufnahme (mAs) / *Lights up with slection of radiography (mAs)* |
| 34b | Leuchtet wenn Betriebsart Aufnahme nicht angewählt ist (mA) / *Ligths up if operation mode radiography is not selected (mA)* |

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## LED Anzeigefläche / *LED displays*

| **LED / *LED*** | **Funktion / *Function*** |
|---|---|
| 18<br>gelb/*yellow* | Anzeige leuchtet wenn Strahlung ausgelöst wird /<br>*Display lights up if radiation is released* |
| *20*<br>rot/*red* | Anzeige leuchtet bei einer Strahlertemperatur > 50°C und blinkt bei einer Strahlertemperatur > 70°C /<br>*Display lights up with a tube assembly temperature of > 50°C and flashes with a tube assembly temperature of > 70°C* |

## 7-Segment-Anzeigen / *7-segment-displays*

| **Anzeige / *Display*** | **Funktion / *Function*** |
|---|---|
| 33 | kV-Anzeige / *kV display* |
| 34 | mA/mAs Anzeige / *mA/mAs display* |
| 38 | Durchleuchtungszeit / *Fluoroscopic time* |
| 40 | Anzeige Bilddrehung / *Display of image rotation* |

Funktion der 7-Segmentanzeigen und Anzeigeflächen /
*Function of 7-segment displays and display areas*

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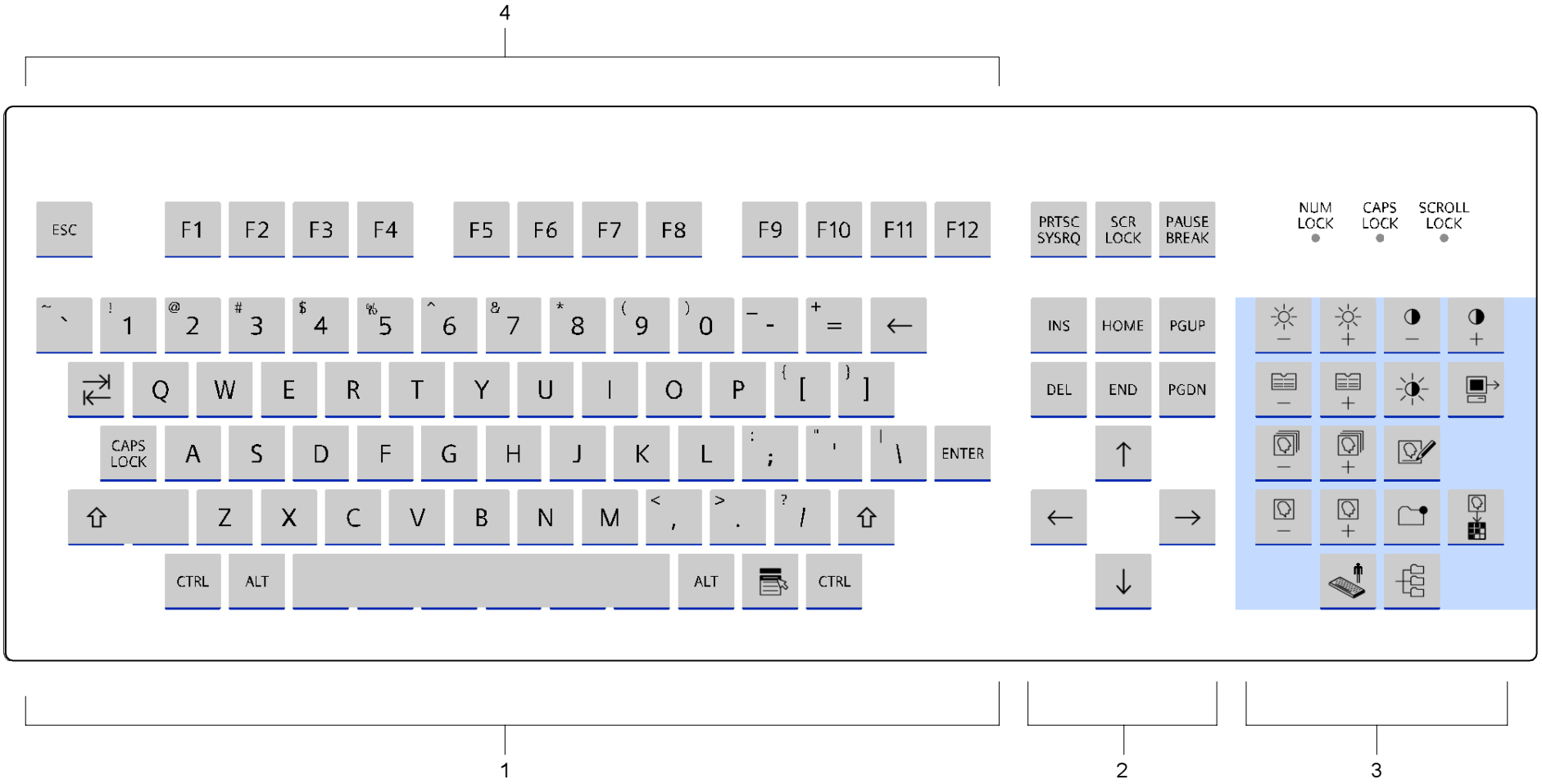


1 Alphanumerische Tasten / *Alphanumeric keypad*
2 Cursor-Tasten / *Cursor keys*
3 Bildnachverarbeitungstasten / *Image post-processing keys*
4 Funktions-Tasten / *Function keys*

Tastatur Trolley / *Keyboard trolley*

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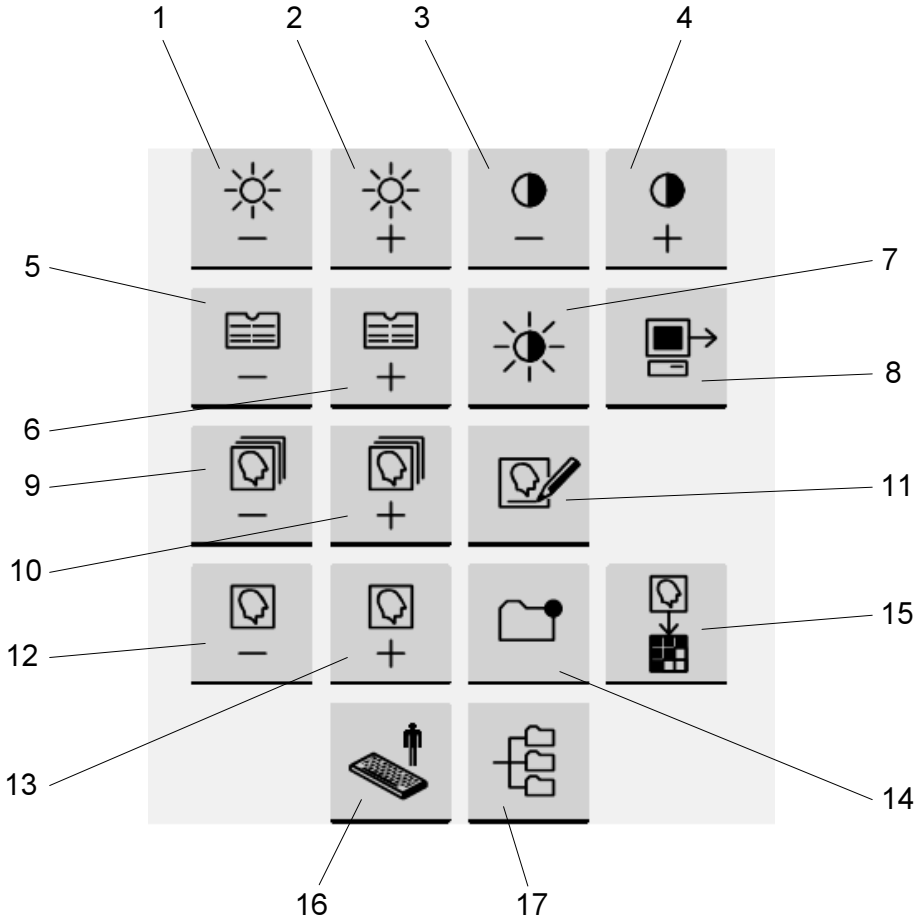


| **Taste / *Key*** | **Funktion / *Function*** |
|---|---|
| 1 | Fensterung Lage - (Helligkeit) / *Windowing center - (brightness)* |
| 2 | Fensterung Lage + (Helligkeit) / *Windowing center + (brightness)* |
| 3 | Fensterung Weite - (Kontrast-) / *Windowing width - (contrast-)* |
| 4 | Fensterung Weite + (Kontrast+) / *Windowing width + (contrast+)* |
| 5 | Studie Blättern rückwärts / *Scroll study back* |
| 6 | Studie Blättern vorwärts / *Scroll study forward* |
| 7 | Bildumschaltung negativ-positiv / *switch image negativ-positiv* |
| 8 | Senden an Knoten / *sending to node* |
| 9 | Serie Blättern rückwärts / *Scroll series back* |
| 10 | Serie Blättern vorwärts / *Scroll series forward* |
| 11 | Kommentar einfügen / *insert a comment* |
| 12 | Einzelbilder Blättern rückwärts / *Scroll image back* |
| 13 | Einzelbilder Blättern vorwärts / *Scroll image forward* |
| 14 | Bild, Serie, Studie markieren / *Marking image, series, study* |
| 15 | Bild auf Filmblatt kopieren / *Copy to film sheet* |
| 16 | Patientenregistrierung / *Patient registration* |
| 17 | Patientenliste / *Patient browser* |

Bildnachverarbeitungstasten Trolley /
*Image post-processing keys trolley*

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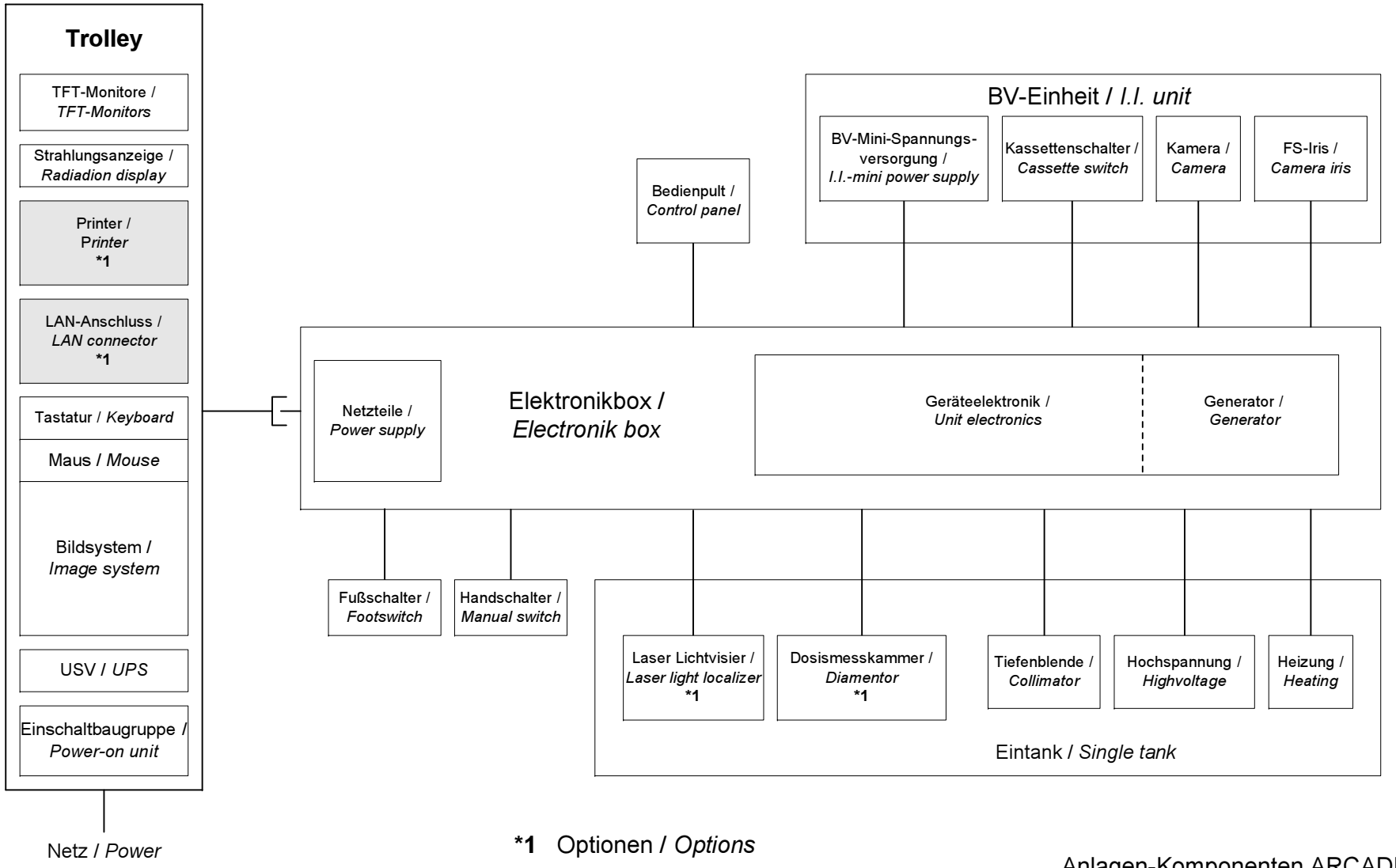


***1*** Optionen / *Options*

Anlagen-Komponenten ARCADIS Varic /
*Unit Components ARCADIS Varic*

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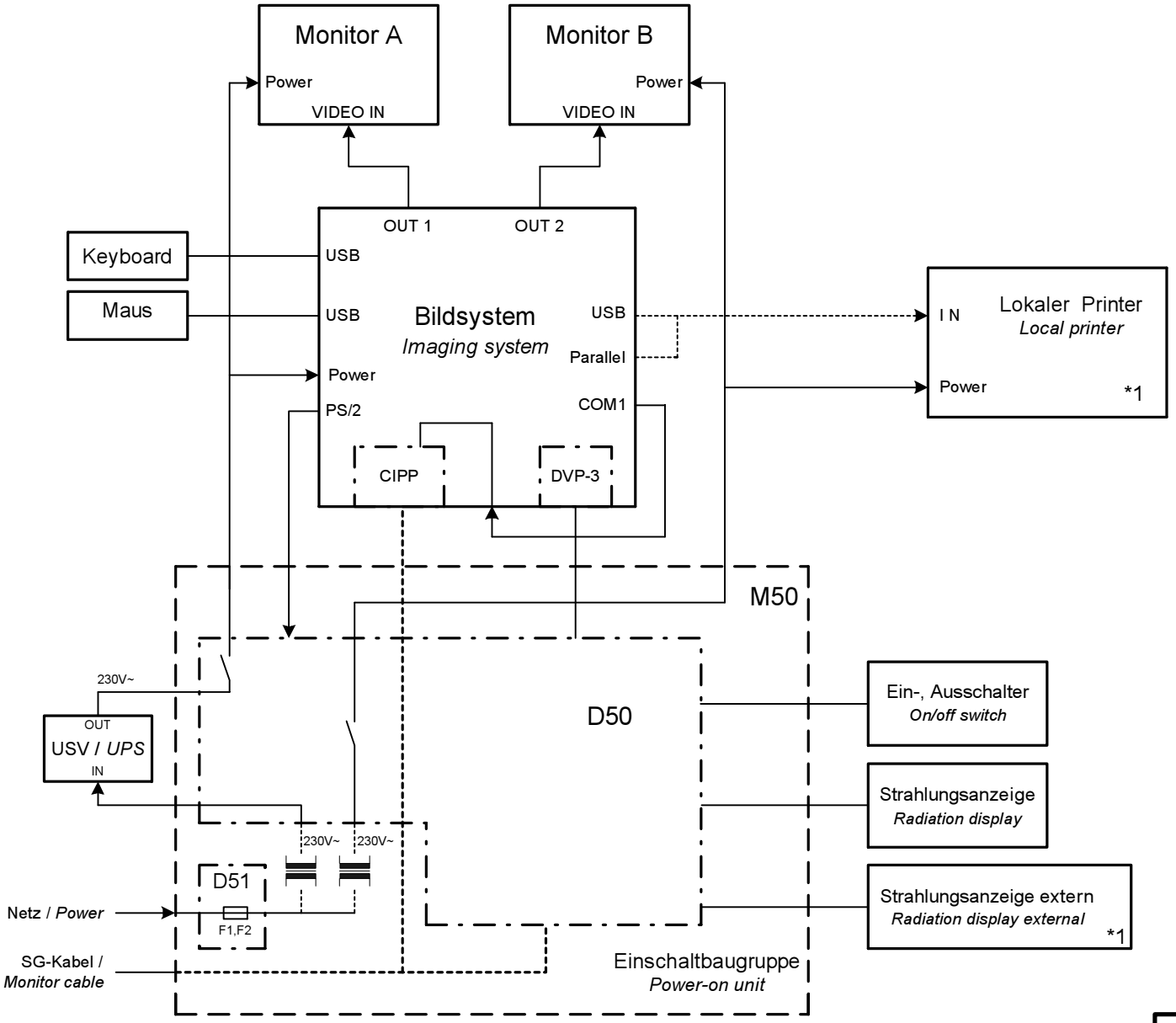


*1 Optionen / *Options*

## Komponenten Trolley / *Components trolley*

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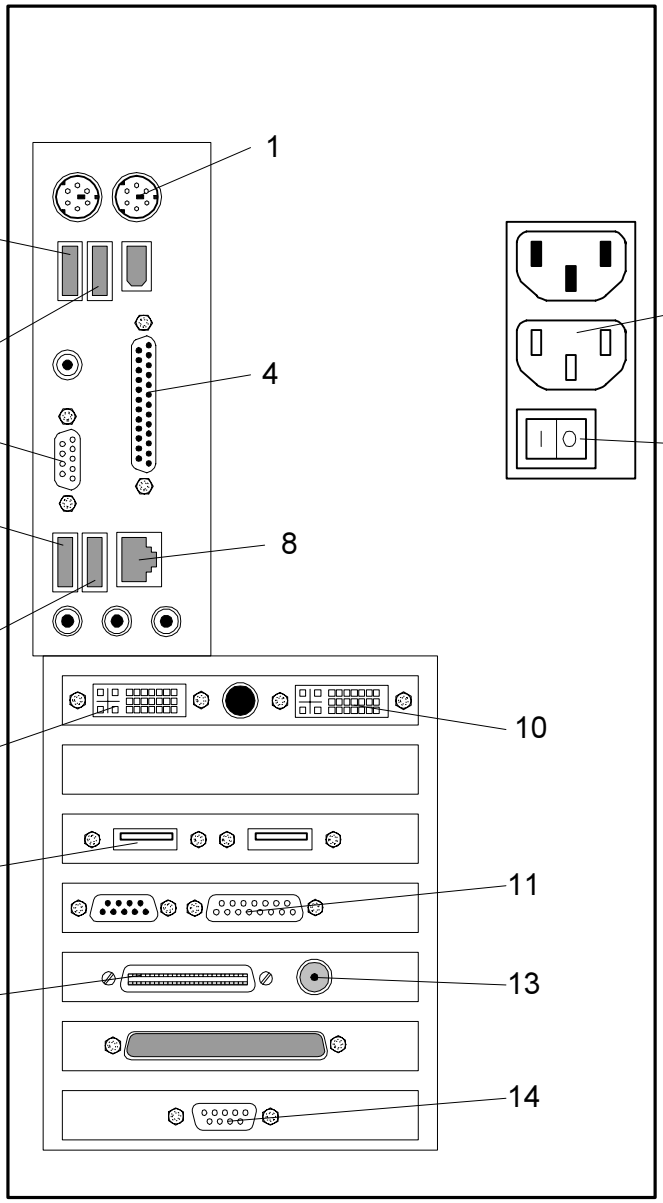


| Nummer/*Number* | Komponente */ Component* |
|---|---|
| 1 | USV-Steuerung / *ups control* |
| 2 | Tastatur / *Keyboard* |
| 3 | Maus / *Mouse* |
| 4 | Druckeranschluss parallel / *Printer connect parallel* |
| 5 | COM1 / *COM 1* |
| 6 | Dongle / *Dongle* |
| 7 | Druckeranschluss USB / *Printer connect USB* |
| 8 | LAN-Anschluss / *LAN connector* |
| 9 | Monitor B / *Monitor B* |
| 10 | Monitor A / *Monitor A* |
| 11 | M50.D50.X9 / *M50.D50.X9* |
| 12 | D66.X5 / *D66.X5* |
| 13 | D66.X4 (Gigalink) / *D66.X4 (Gigalink)* |
| 14 | Zwischenstecker COM1 / *Adapter plug COM1* |
| 15 | Netzstecker / *Net plug* |
| 16 | Ein-, Ausschalter / *On, off switch* |
| 17 | CAN-Konverter (Option) / *CAN converter (option)* |

Anschlüsse Bildsystem / *Connectors imaging system*

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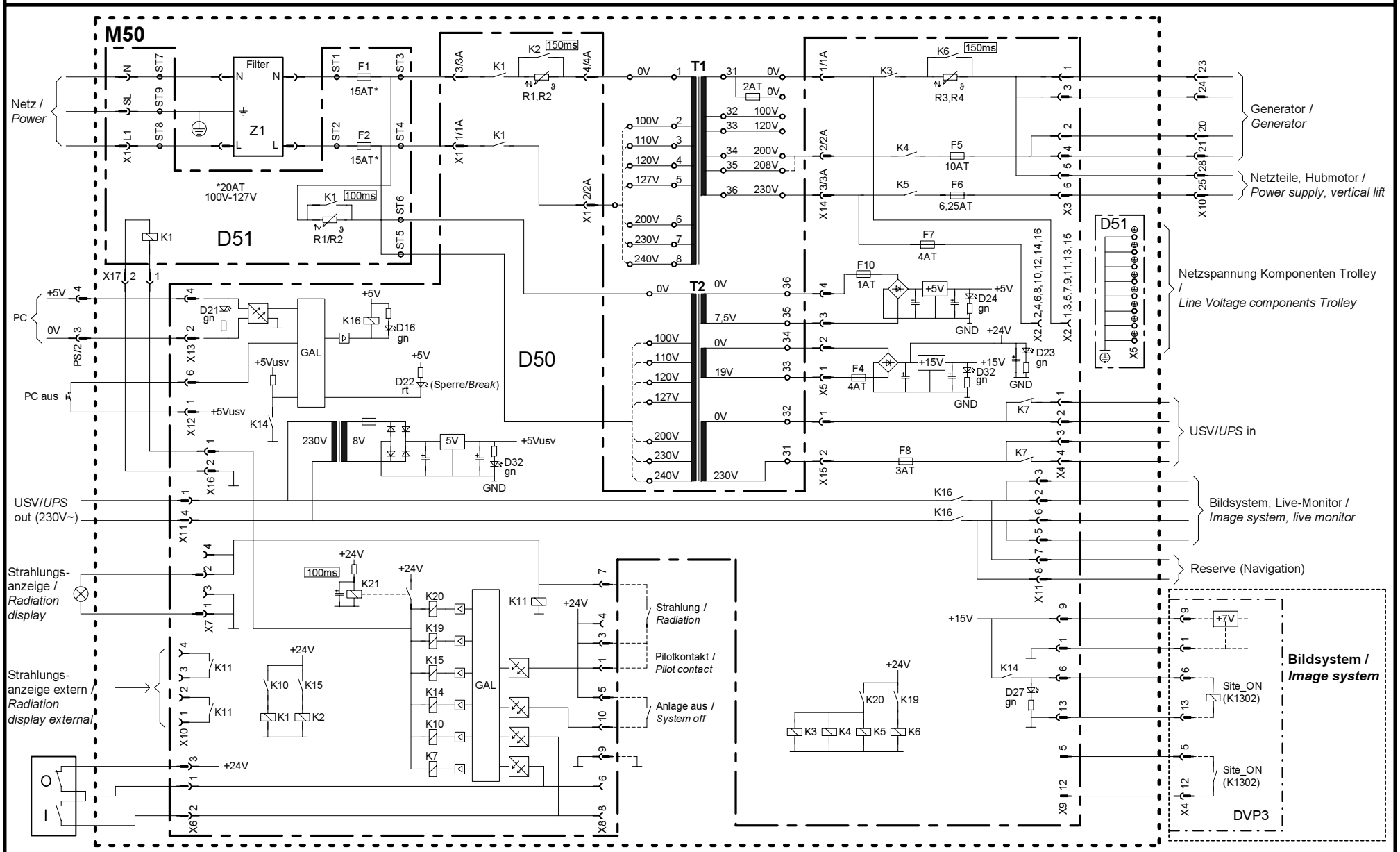


Einschaltelektronik / *Start-up electronics*

**ARCADIS Varic G2266 - 7 - 3**

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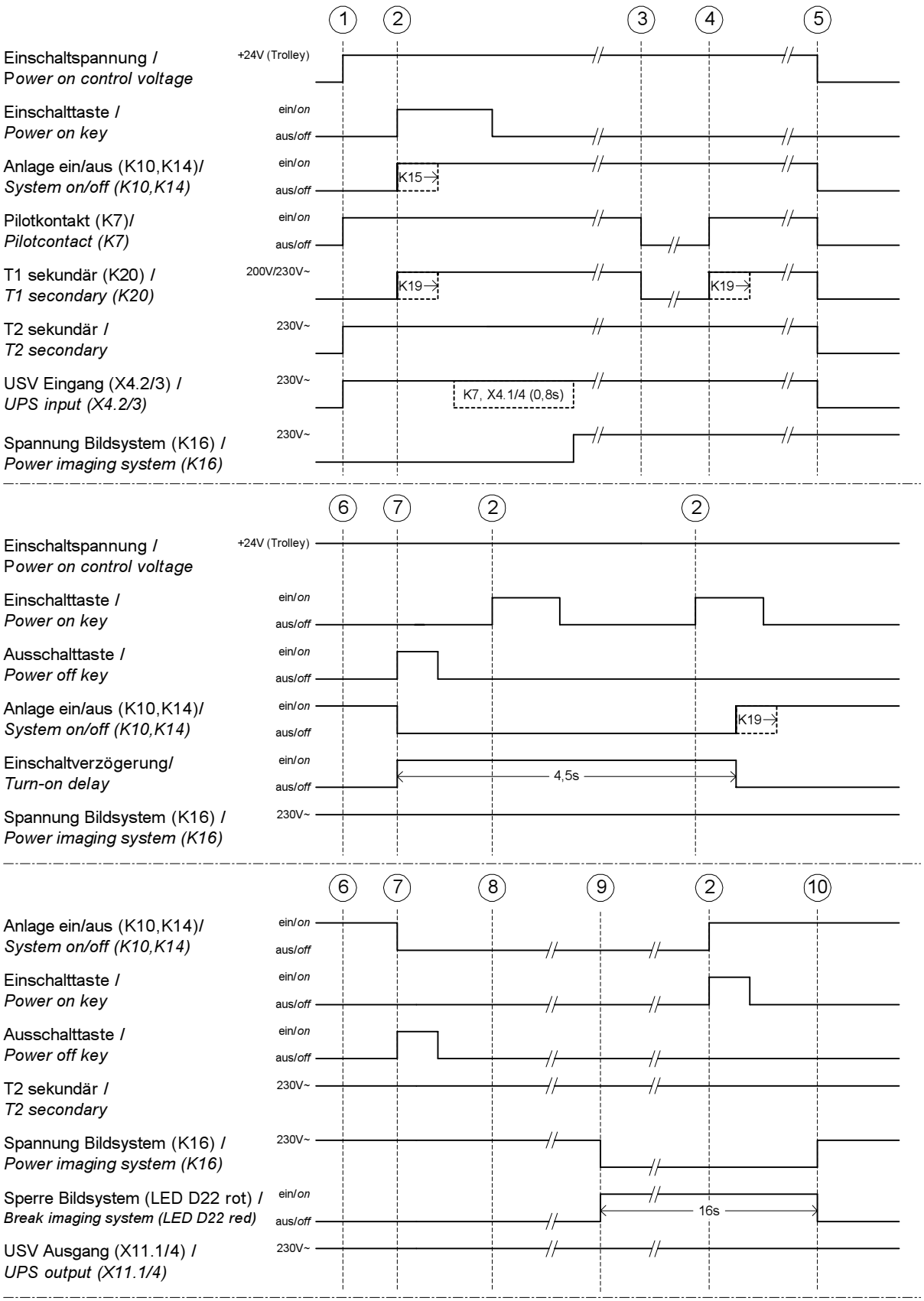


1. Netzstecker stecken / *Mains plug connected*
2. Anlage ein / *System on*
3. Pilotkontakt aus / *Pilot contact off*
4. Pilotkontakt ein / *Pilot contact on*
5. Netzstecker gezogen / *Mains plug unplugged*
6. Anlage eingeschaltet / *System switched on*
7. Anlage aus / *System off*
8. Start Shut down / *Started shut down*
9. Bildsystem aus / *Image system off*
10. Ende Sperre Bildsystem / *End break imaging system*

Timing Ein-, Ausschalten / *Timing system on/off*

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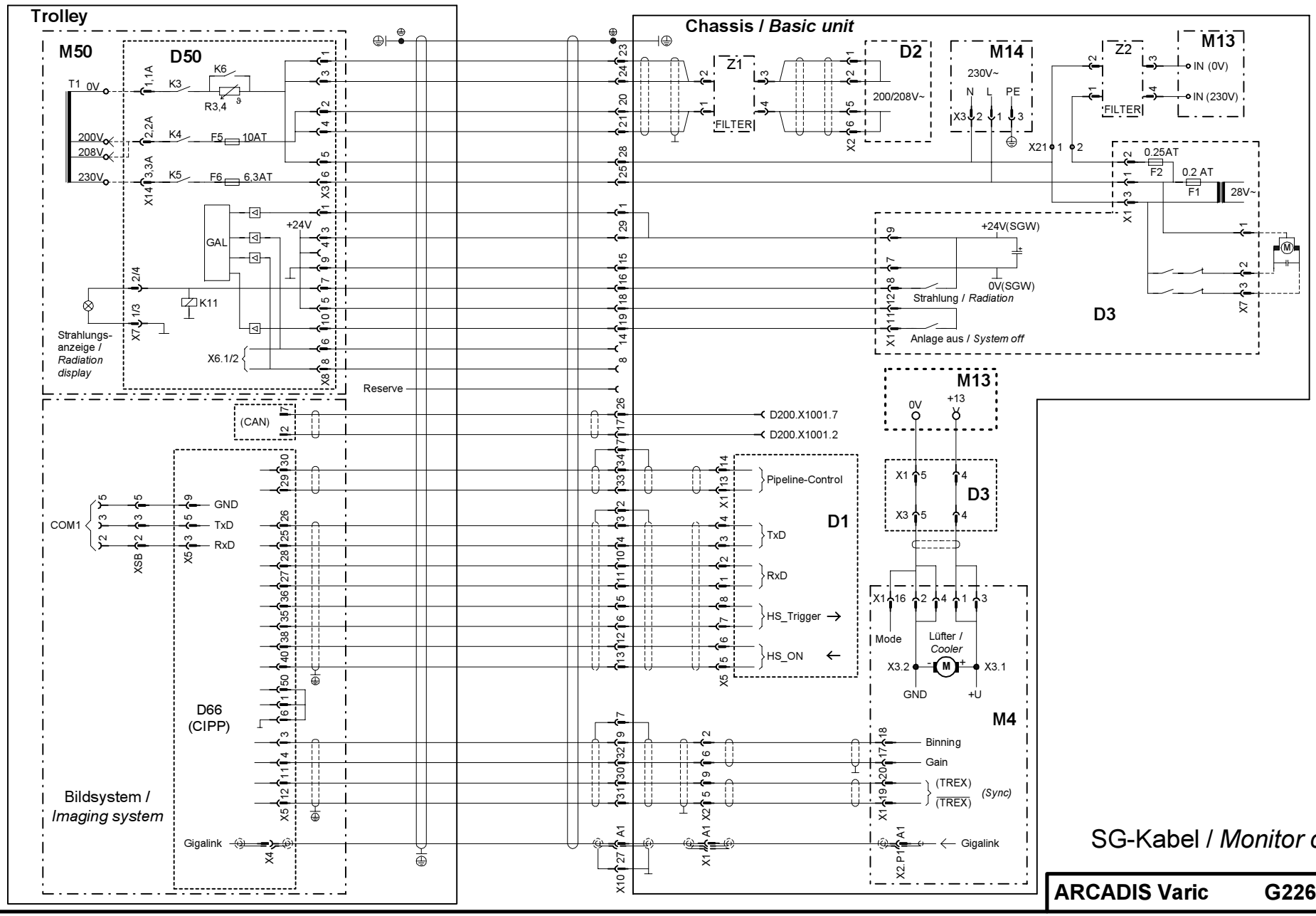


SG-Kabel / *Monitor cable*

**ARCADIS Varic G2266 - 8 - 2**

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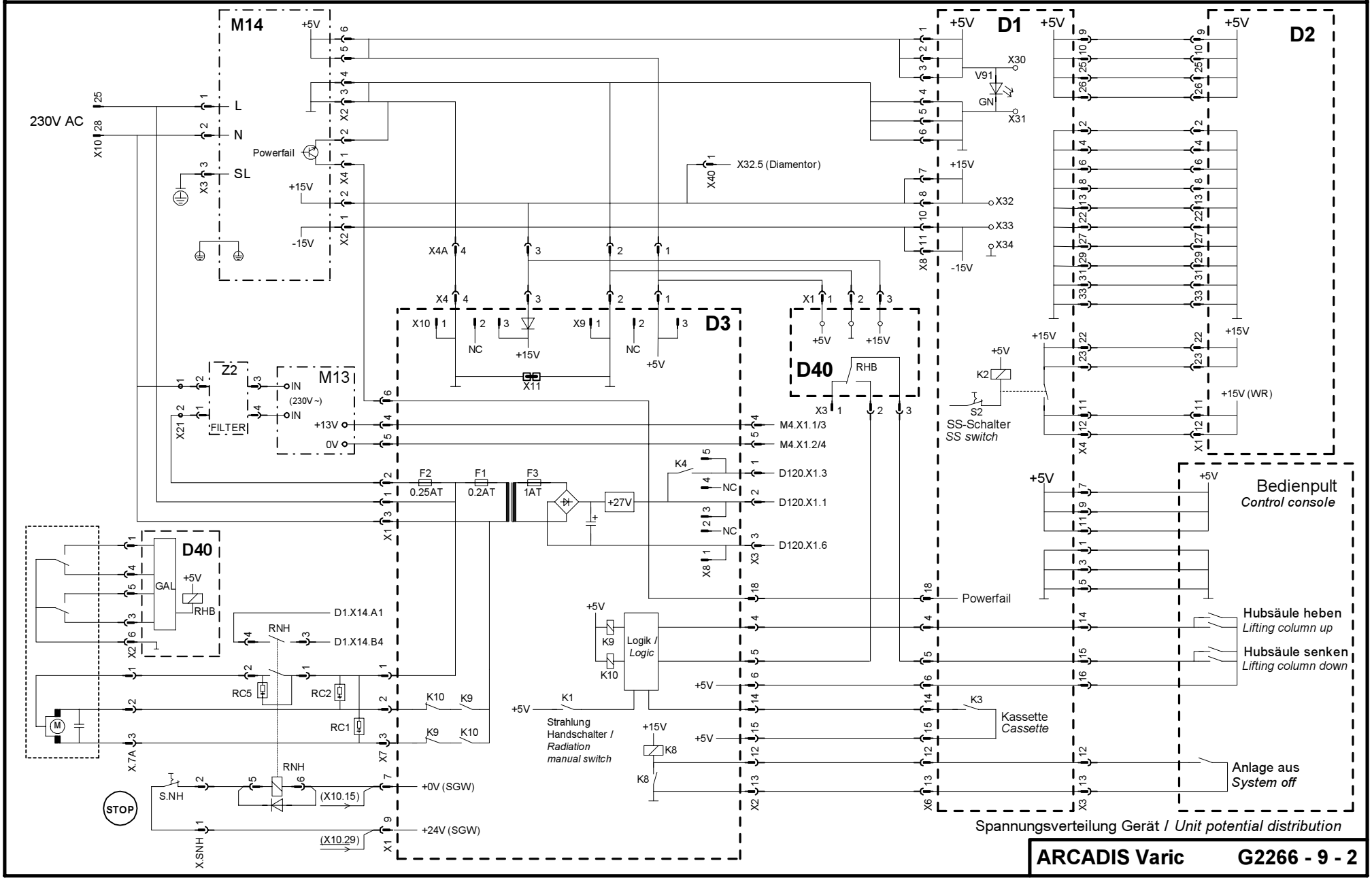


**ARCADIS Varic G2266 - 9 - 2**

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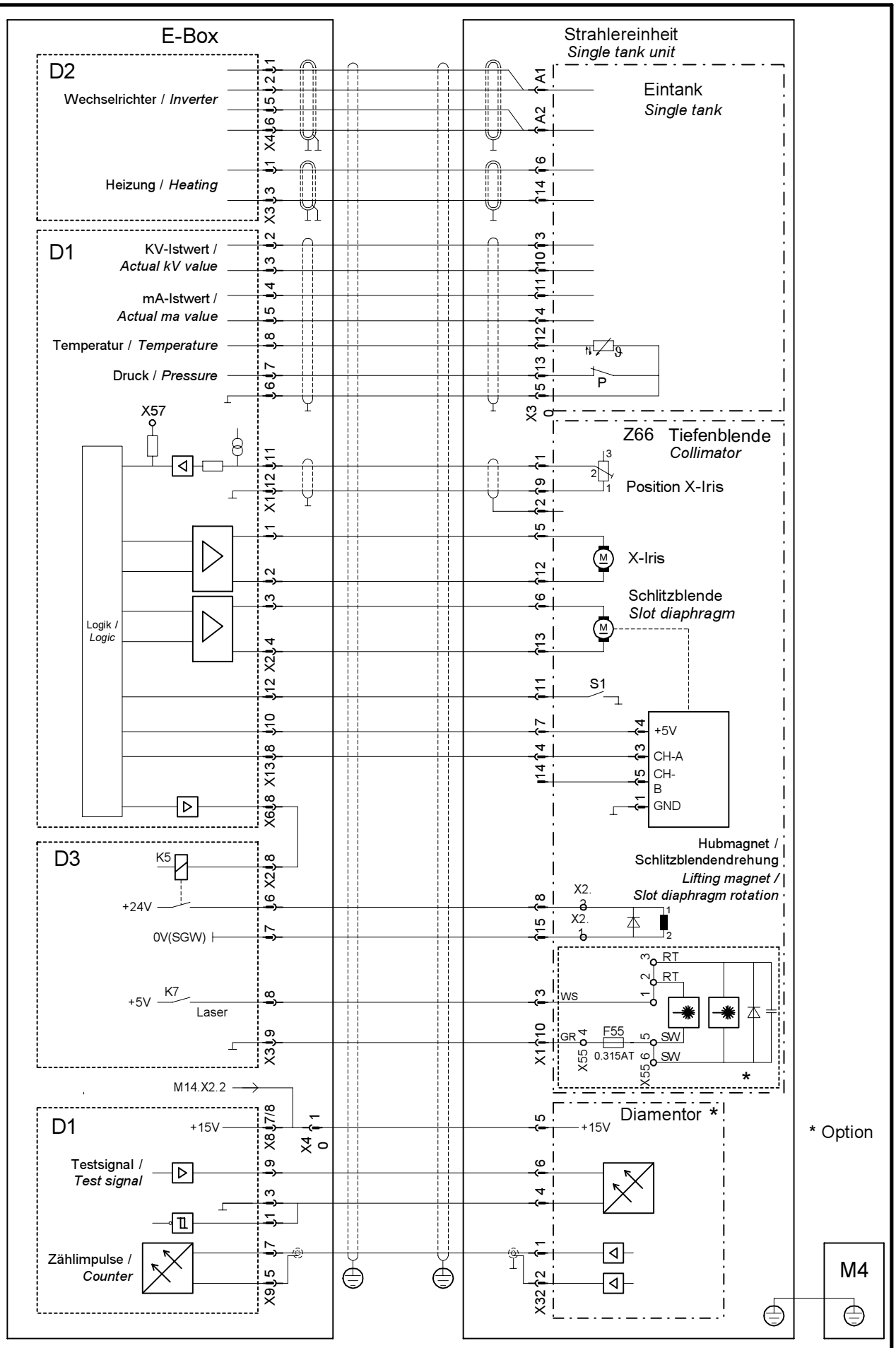


C-Bogen-Kabel Strahlereinheit / *C-arm cable single tank unit*

**ARCADIS Varic G2266 - 10 - 3**

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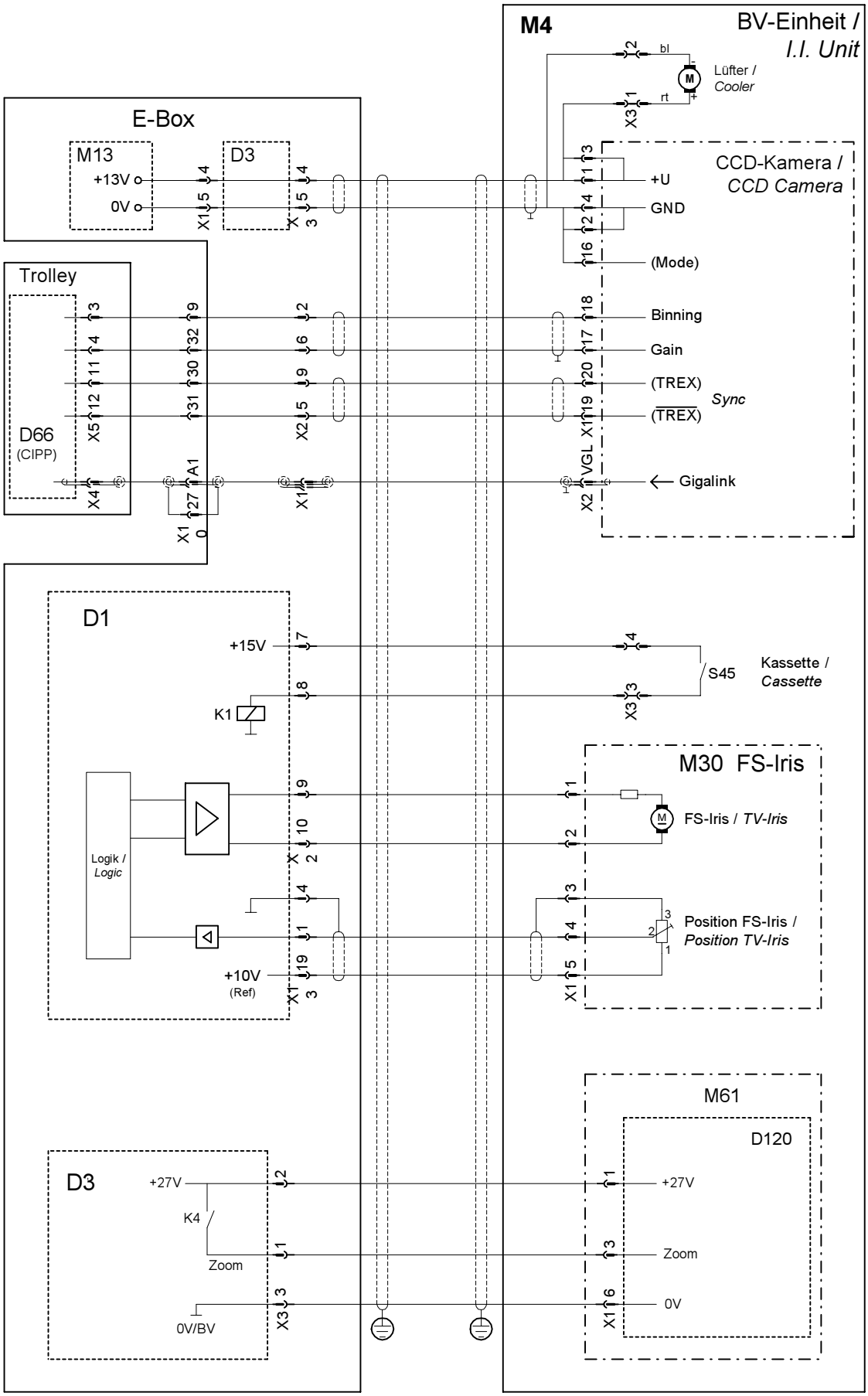


C-Bogen-Kabel BV-Seite / *C-arm cable I.I. unit*

**ARCADIS Varic G2266 - 10A - 2**

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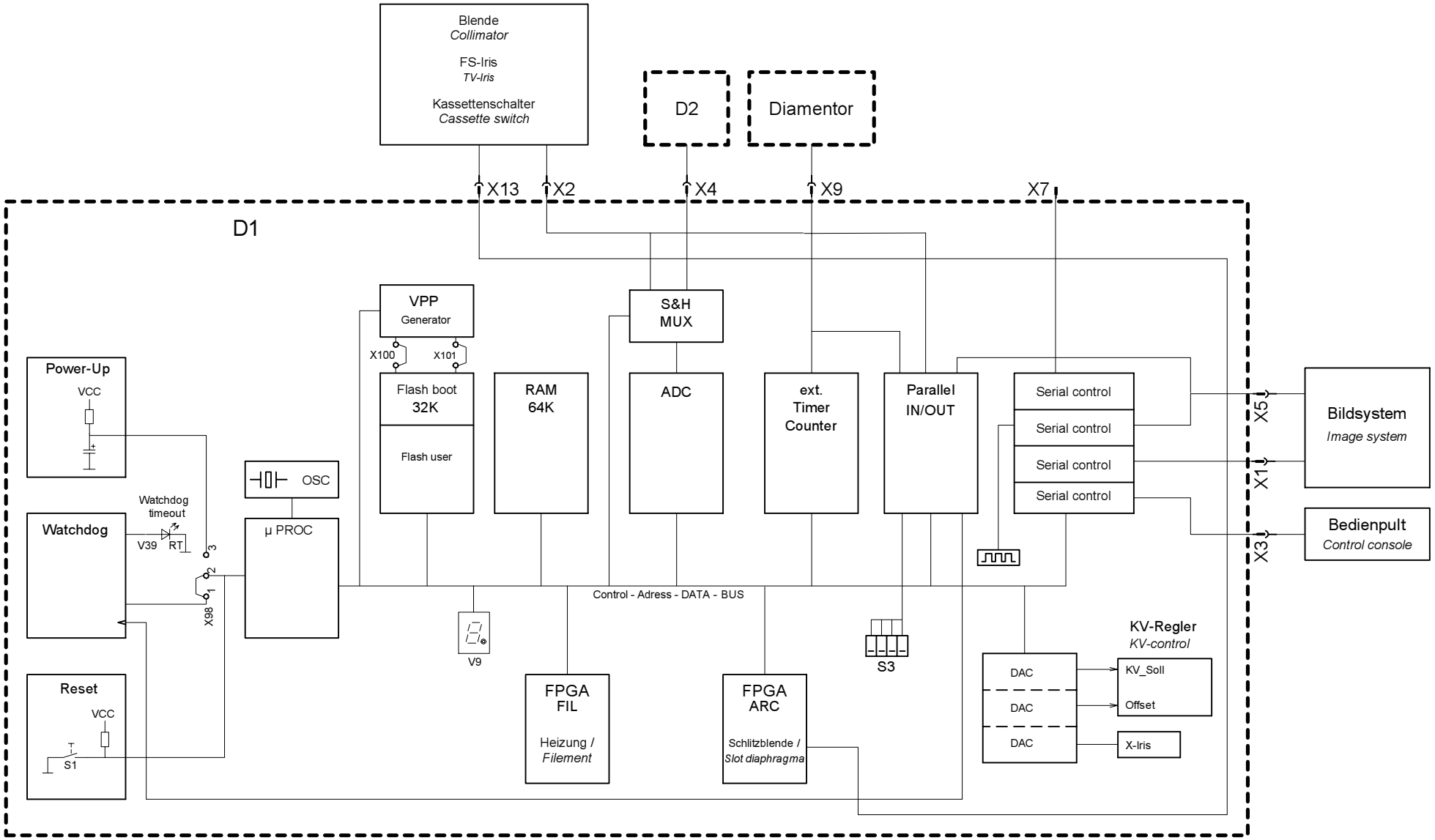


Blockschaltbild D1 / *Circuit diagram D1*

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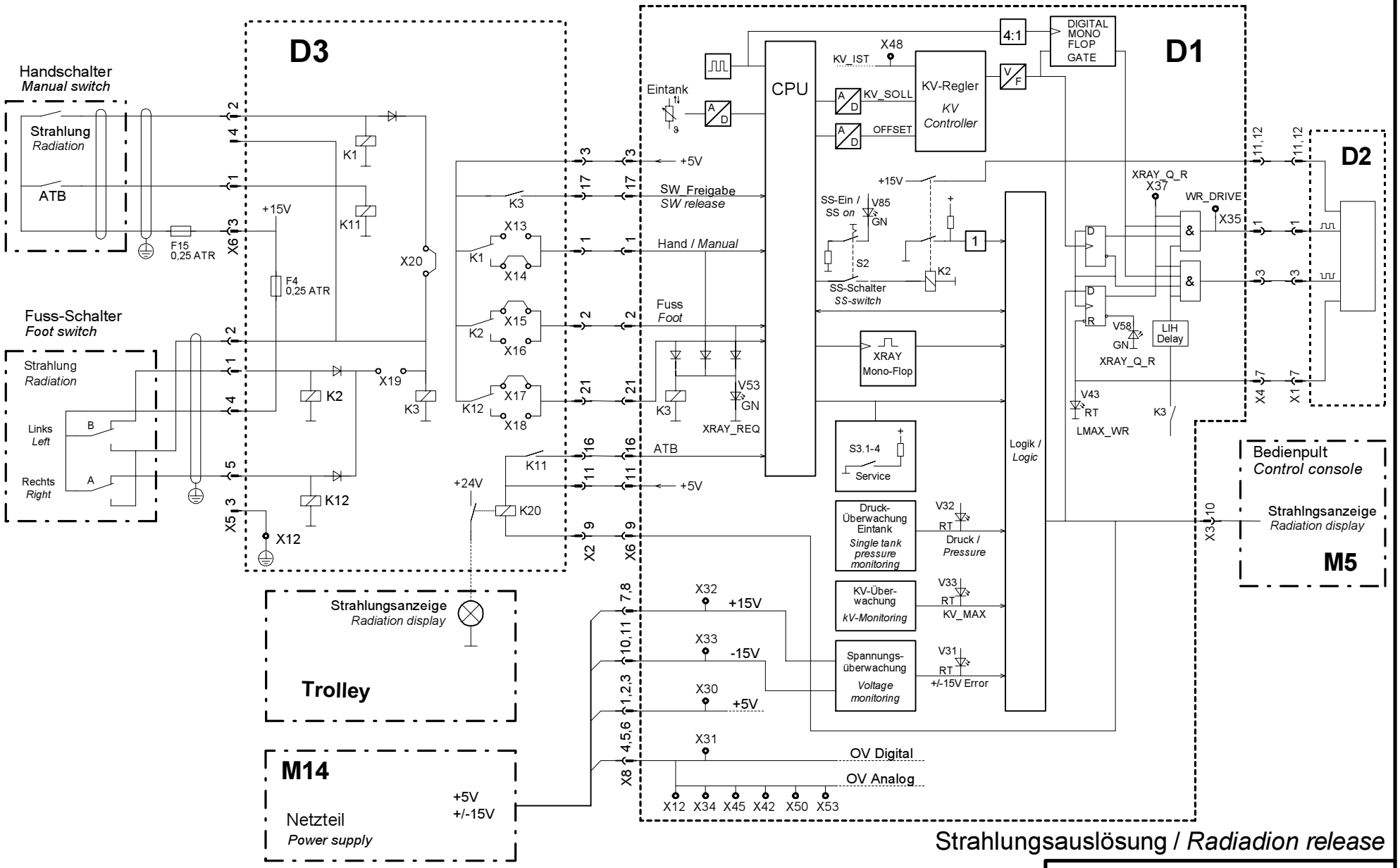


Strahlungsauslösung / *Radiadion release*

**ARCADIS Varic G2266 - 21 - 2**

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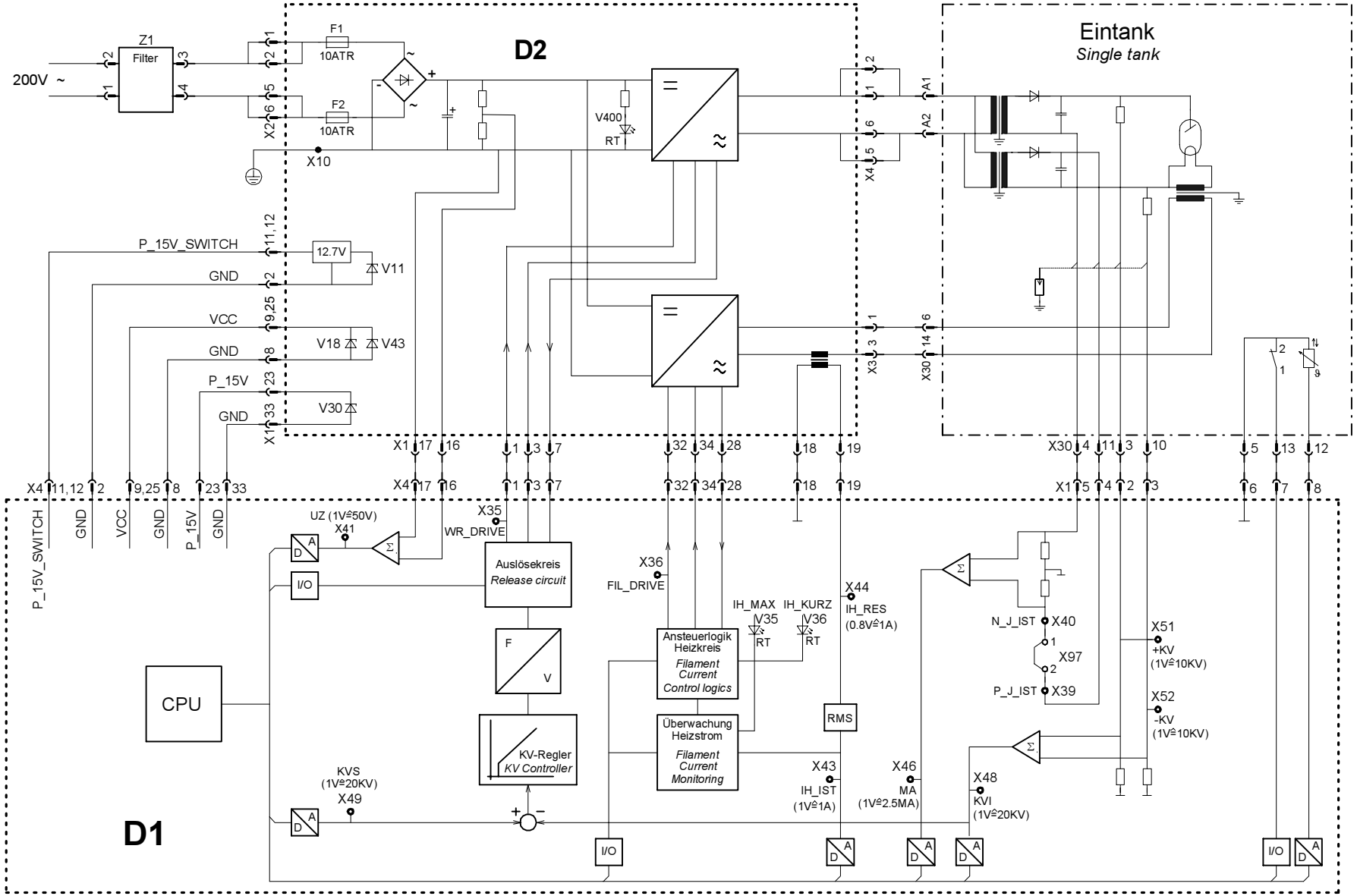


Blockschaltbild Generator / *Block circuit diagram generator*

**ARCADIS Varic G2266 - 22 - 2**

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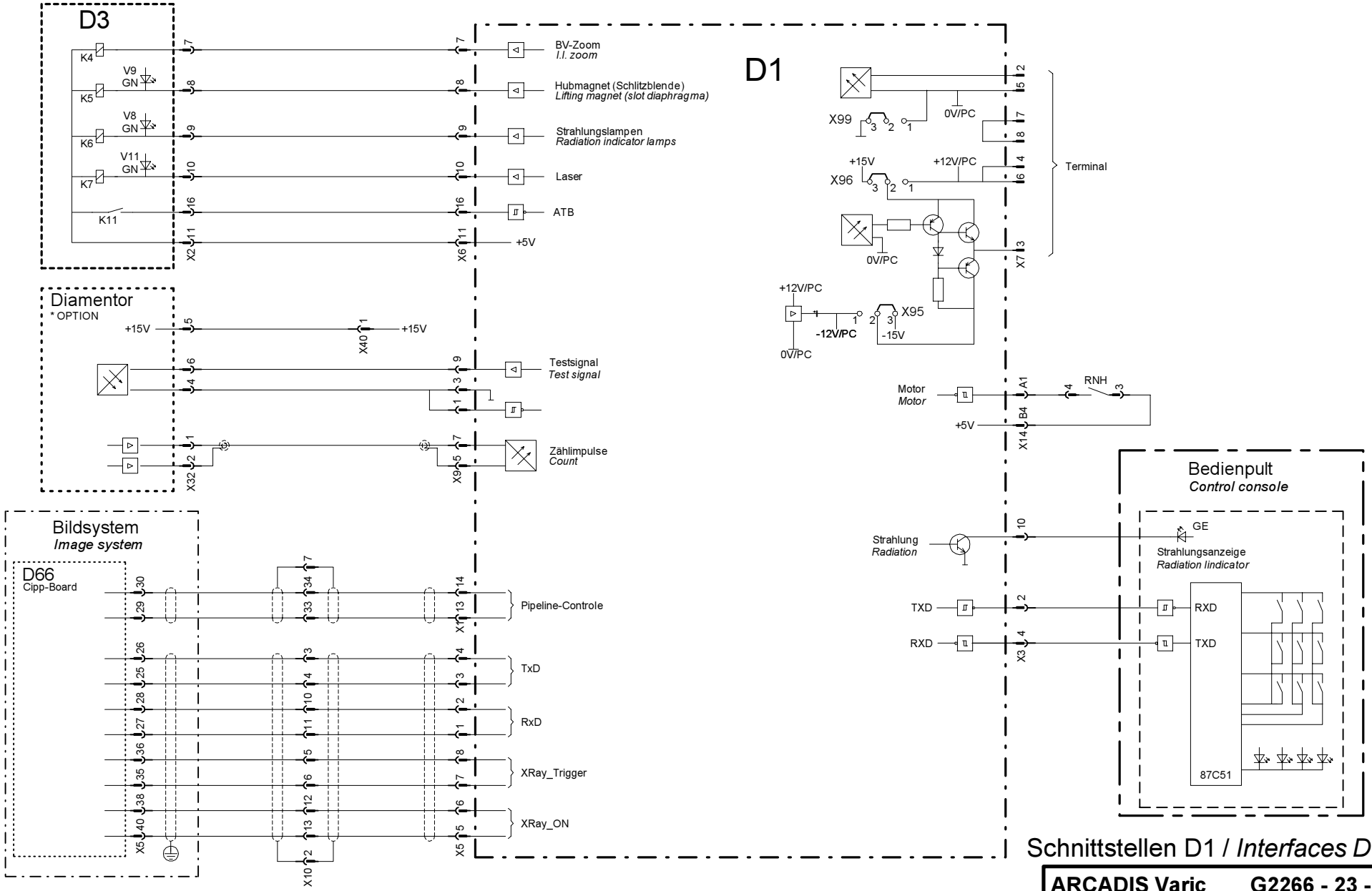


Schnittstellen D1 / *Interfaces D1*

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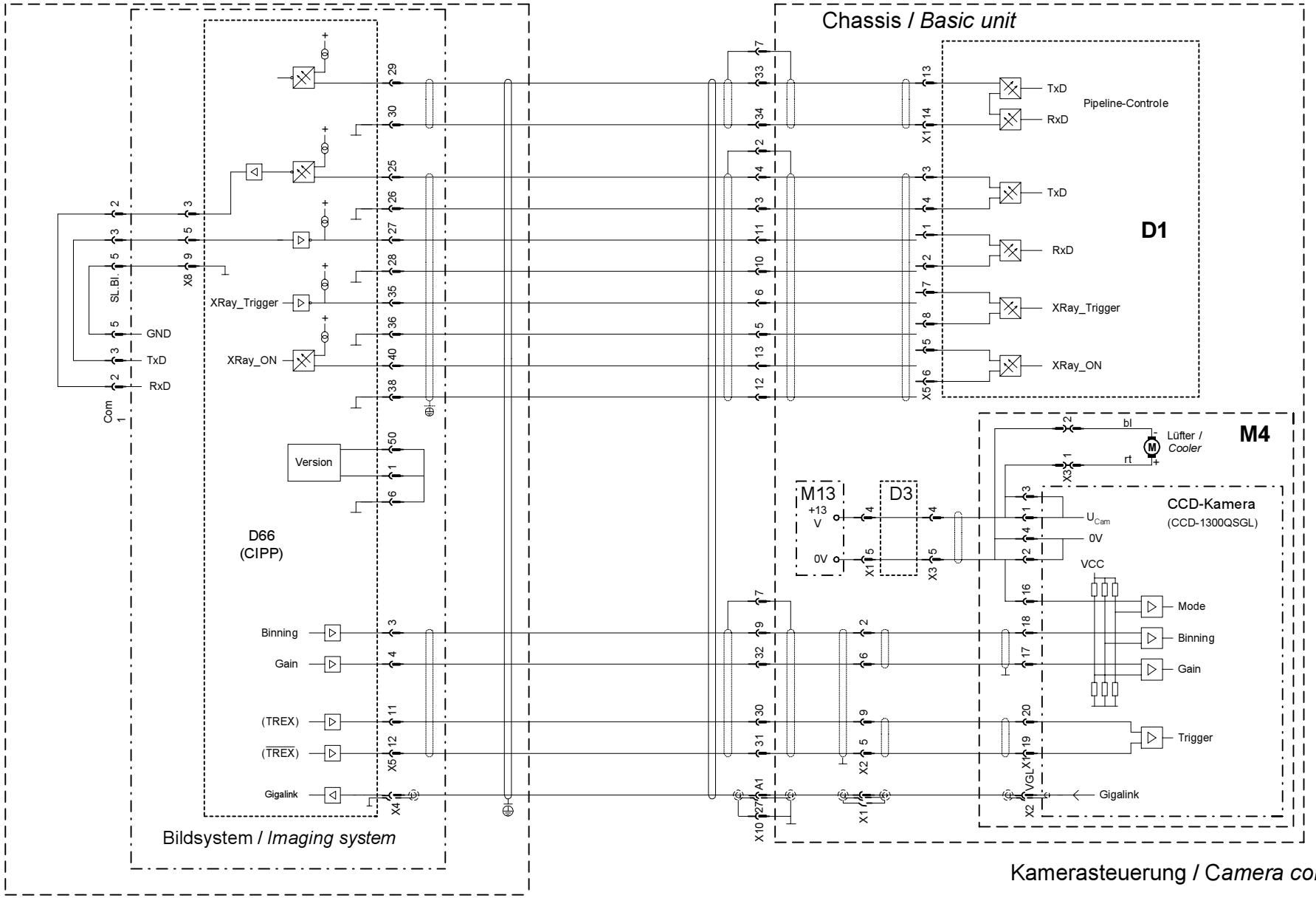

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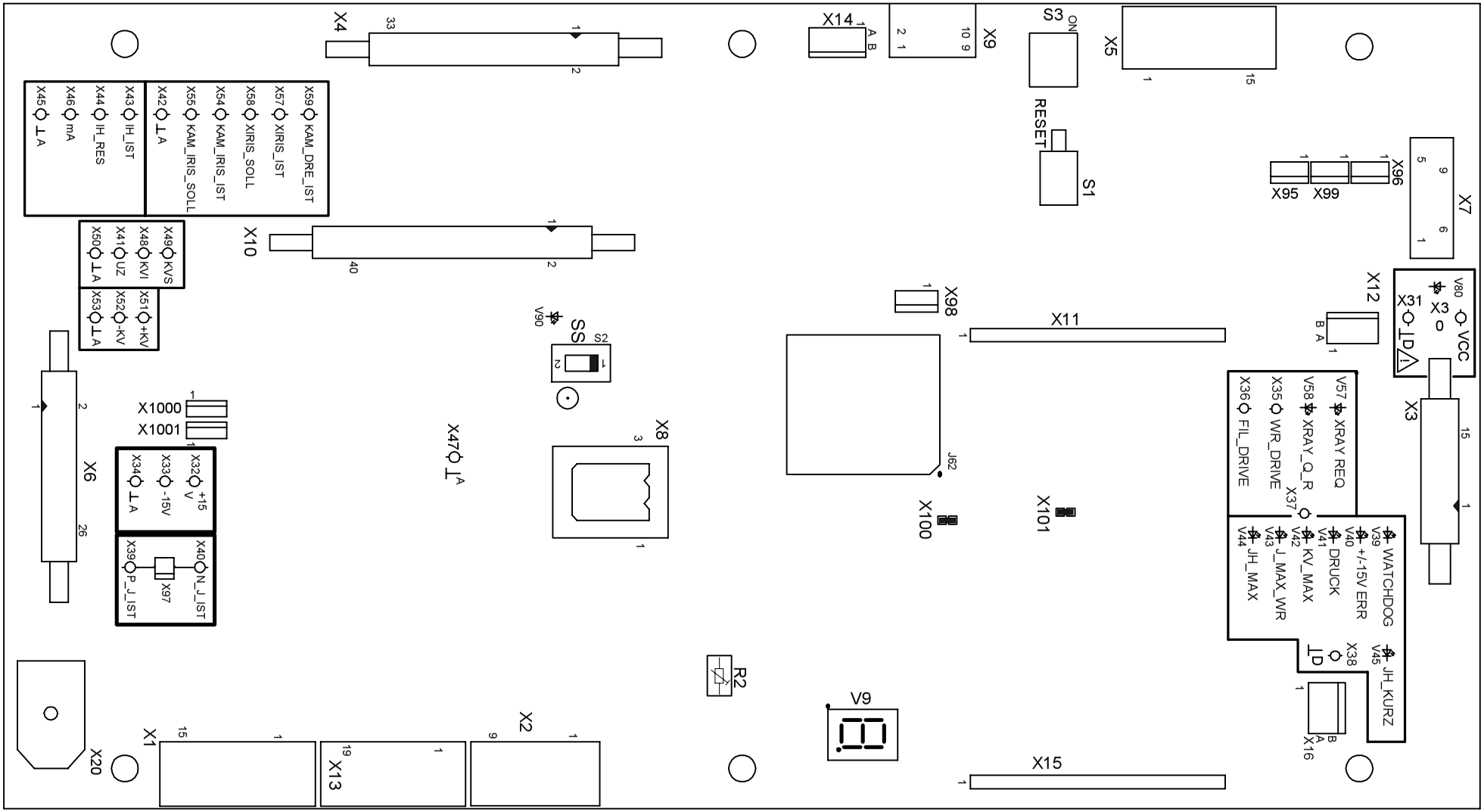
## Bauteilseite / *Component side*




## D1 Steuerplatine / *D1 control board*

**ARCADIS Varic G2266 - 30 - 2**

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## Stecker / *Plugs*

| | |
|---|---|
| X1 | zum C-Bogen / *to C-arm* |
| X2 | zum C-Bogen / *to C-arm* |
| X3 | zum Bedienpult / *to control console* |
| X4 | zum Leistungsteil / *to power part* |
| X5 | zum Bildspeicher / *to image memory* |
| X6 | zum Einschaltkreis / *to startup circuit* |
| X7 | Service / *service* |
| X8 | Spannungsversorgung / *Power supply* |
| X9 | Diamentor / *Diamentor* |
| X10 | Prüfstecker / *Test plug* |
| X11 | zur Zeit nicht benötigt / *for future use* |
| X12 | nicht angeschlossen / *not connected* |
| X13 | zum C-Bogen / *to C-arm* |
| X14 | Notstopp / *Emergency stop* |
| X15 | zur Zeit nicht benötigt / *for future use* |
| X16 | Softwaretesthilfe / *Software debug* |
| X20 | Masseanschluss / *Ground connection* |

## Messpunkte / *Test points*

| | | |
|---|---|---|
| X30 | +5V (VCC) | |
| X31 | MASSE D | Masse Digital / *Digital ground* |
| X32 | +15V | |
| X33 | -15V | |
| X34 | MASSE A | Masse Analog / *Analog ground* |
| X35 | WR_DRIVE | Hauptwechselrichteransteuerpulse / *Main inverter control pulses* |
| X36 | FIL_DRIVE | Heizwechselrichteransteuerpulse / *Filament inverter control pulses* |
| X37 | XRAY_Q_R | Strahlungsanforderungsrückmeldung / *Radiation request feedback* |
| X38 | MASSE D | Masse Digital / *Digital ground* |
| X39 | P_J_IST | Röhrenstrom; zum Messen X97 entfernen / *Tube current; remove X97 for measurement* |
| X40 | N_J_IST | Röhrenstrom; zum Messen X97 entfernen / *Tube current; remove X97 for measurement* |
| X41 | UZ | Zwischenkreisspannung / *Intermediate circuit voltage* (1V≙ 50V) |
| X42 | MASSE A | Masse Analog / *Analog ground* |
| X43 | IH_IST | Heizstrom Istwert / *Filament current actual value* (1V≙ 1A eff) |
| X44 | IH_RES | Schwingstrom / *Oscillation current* (0.8V≙ 1A) |
| X45 | MASSE A | Masse Analog / *Analog ground* |
| X46 | mA | Röhrenstrom Istwert / *Tube current actual value* (1V≙ 2.5A eff) |
| X47 | MASSE A | Masse Analog / *Analog ground* |
| X48 | KVI | Hochspannungsistwert / *Actual high voltage value* (1V≙ 20kV) |
| X49 | KVS | Hochspannungssollwert / *Reference high voltage value* (1V≙ 20kV) |
| X50 | MASSE A | Masse Analog / *Analog ground* |
| X51 | +KV | Positive Hochspannung / *Positive high voltage* (1V≙ 10kV) |
| X52 | -KV | Negative Hochspannung / *Negative high voltage* (1V≙ 10kV) |
| X53 | MASSE A | Masse Analog / *Analog ground* |
| X54 | KAM_IRIS_IST | Kamerairis Istwertausgabe / *Camera iris.actual-value display* |
| X55 | KAM_IRIS_SOLL | Kamerairis Sollwertausgabe / *Camera iris.set-value display* |
| X57 | XIRIS_IST | X-Irisposition Istwertausgabe / *X-iris position actual value output* |
| X58 | XIRIS_SOLL | X-Irisposition Sollwertausgabe / *X-iris position reference value output* |
| X59 | KAM_DREH_IST | nicht benutzt / *not used* |

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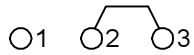
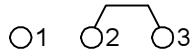
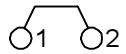
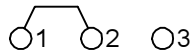
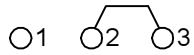
## Brücken / *Jumpers*

X95  Siehe Hinweis 1 / *See note 1*

X96  Siehe Hinweis 1 / *See note 1*

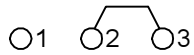
X97  Offen: zur Röhrenstrommessung / *Open: for tube current measurement*
Geschlossen: Normalzustand / *Closed: normal status*

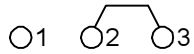
X98  Watchdog
1-2 Normalzustand / *normal status*
2-3 unzulässig, nur zum Test / *inadmissible, for test only*

X99  Siehe Hinweis 1 / *See note 1*

X100 Geschlossen: SW-Download möglich / *Closed: SW download enable*

X101 Geschlossen: SW-Download möglich / *Closed: SW download enable*

X1000  1-2 unzulässig / *impermissible*
2-3 Normalzustand / *Normal status*

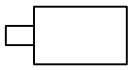
X1001  1-2 unzulässig / *impermissible*
2-3 Normalzustand / *Normal status*

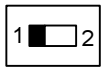
Hinweis 1 / Note 1:

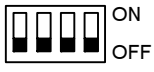
X95, X96, X99 Für ARCADIS nicht relevant / *not relevant for ARCADIS*

2-3 Normalzustand / *Normal status*

## Schalter / *Switches*

S1  CPU-Reset / *CPU reset*

S2  Sicherheitsschalter (SS) / *Safety switch (SS)*
1 Strahlungsfreigabe Normalzustand / *radiation release normal status*
2 Strahlungssimulation / *Radiation simulation*

S3 

Normalzustand / *Normal status*

| | | |
|---|---|---|
| S3.1 | On | Keine Fehlerquittierung mit Strahlungsauslösung / *No fault acknowledgment with radiation triggering* |
| | Off | Normalzustand / *Normal status* |
| S3.2 | On | Testhilfe Software / *Debug software* |
| | Off | Normalzustand / *Normal status* |
| S3.3 | On | Download Bootsoftware / *Boot SW download* |
| | Off | verhindert Ausführung der Software SM_Host / *prevents execution of SW SM_Host* |
| S3.4 | On | Strahlungsblockierung / *Radiation blocking* |
| | Off | Strahlungsfreigabe / *Radiation release* |

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## 7-Segmentanzeige / *7-segment display*

V9

CPU-Fehler (D1 austauschen) / *CPU error (replace D1)*

Codefehler (D1 austauschen) / *Code error (replace D1)*

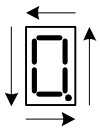
RAM Fehler (D1 austauschen) / *RAM error (replace D1)*

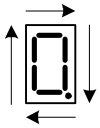
Watchdog Fehler (X98 kontrollieren) / *Watchdog error (check X98)*

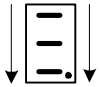
Schnittstellenfehler zum Service PC / *Interface error to service PC*

Softwarefehler Betriebssystem / *Operating system software error*

Softwarefehler Stacküberlauf / *Stack overflow software error*


Status / *Status*
linkskreisend: Boot-SW / *Rotation to the left: boot SW*


Status / *Status*
rechtskreisend: Host-SW / *Rotation to the right: Host SW*


S3.3 umschalten / *Switch over S3.3*
Steuerung bleibt in der Boot-SW / *Control remains in boot SW*

## Leds / *Leds*

ERRORS

| | | | |
|---|---|---|---|
| V39 | Rot / *red* | WATCHDOG | Watchdog timeout |
| V40 | Rot / *red* | +/- 15V ERR | Spannungsversorgung +/- 15V Fehler / *Power supply +/- 15V error* |
| V41 | Rot / *red* | DRUCK | Öldruckschalter(Röhre) angesprochen / *Oil pressure switch(tube) actvated* |
| V42 | Rot / *red* | KV_MAX | Maximale Hochspannung überschritten / *Maximum high voltage exceeded* |
| V43 | Rot / *red* | J_MAX_WR | Maximale Wechselrichterstrom überschritten / *Maximum inverter current exceeded* |
| V44 | Rot / *red* | JH_MAX | Maximale Heizstrom überschritten / *Maximum filament current exceeded* |
| V45 | Rot / *red* | JH_KURZ | Kurzschluss Heizstrom / *Filament current short-circuit* |

STATUS

| | | | |
|---|---|---|---|
| V57 | Grün / *green* | XRAY REQ | Strahlunganforderung / *Radiation request* |
| V58 | Grün / *green* | XRAY_Q_R | Strahlunganforderungsrückmeldung / *Radiation request feedback* |
| V80 | Grün / *green* | | +5V Spannungsanzeige / *+5V voltage display* |
| V90 | Grün / *green* | SS | Sicherheitschalter ein / *Safety switch ON* |

D1 Steuerplatine / *D1 control board*

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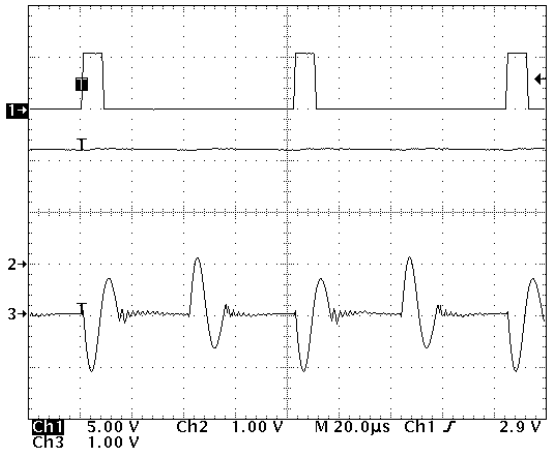
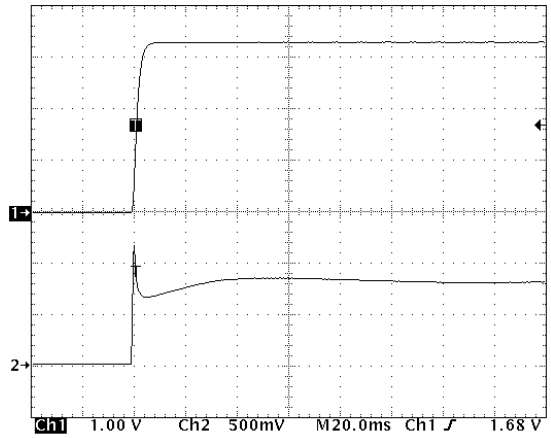


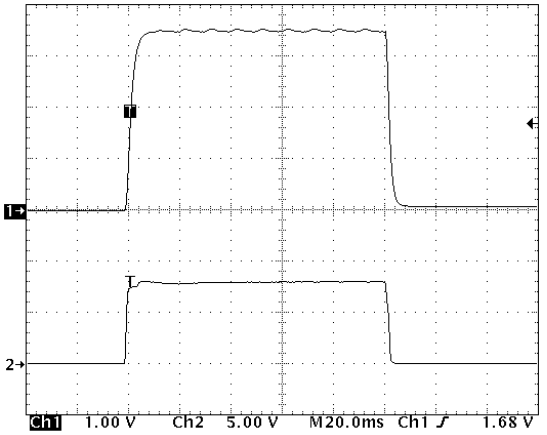

Oszillogramm 1: Standby

Ch1: X36 FIL_DRIVE Ansteuerimpulse Heizkreis */ Filament circuit control pulses*
Ch2: X43 IH_IST Heizstrom-Istwert / *Actual filament current value* (2.2A)
Ch4: X44 IH_RES Heizkreisschwingstrom / *Filament circuit oscillation current*



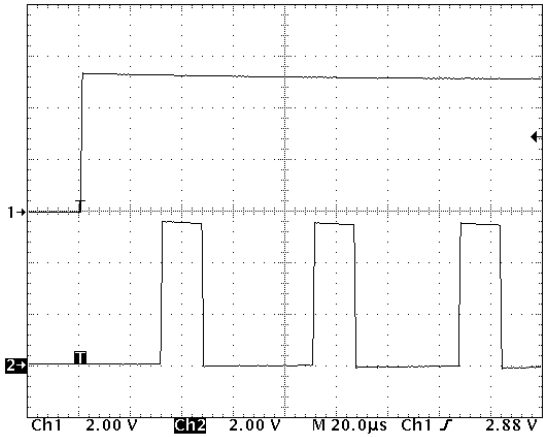

Oszillogramm 3: Durchleuchtung Stoppbetrieb 66kV 2,0mA
*Fluoroscopy stop mode 66kV 2.0mA*

Ch1: X48 KVI kV-Istwert / *Actual kV value* (1V=20kV)
Ch2: X46 mA mA-Istwert / *Actual mA value* (1V=2,5mA)



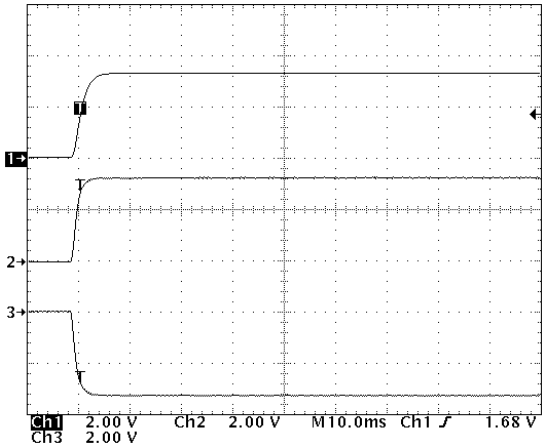

Oszillogramm 5: Kassette 70kV 2,0mAs / *Cassette 70kV 2.0mAs*

Ch1: X48 KVI kV-Istwert / *Actual kV value* (1V=20kV)
Ch2: X46 mA mA-Istwert / *Actual mA value* (1V=2,5mA)




Oszillogramm 2: Einschalten Durchleuchtung 66kV 2,0mA
*Startup of fluoroscopy 66kV 2.0 mA*

Ch1: X37 XRAY_Q_R Start Wechselrichter / *Inverter start*
Ch2: X35 WR_DRIVE Ansteuerimpuls Wechselrichter / *Inverter control pulse*




Oszillogramm 4: Durchleuchtung Stoppbetrieb 66kV 2.0mA
*Fluoroscopy stop mode 66kV 2.0mA*

Ch1: X48 KVI kV-Istwert / *Actual kV value (1V=20kV)*
Ch2: X52 -KV -kV-Istwert / *-actual kV value* (1V=10kV)
Ch4: X51 +KV +kV-Istwert / *+actual kV Value* (1V=10kV)

# D1 Steuerplatine / *D1 Control board*

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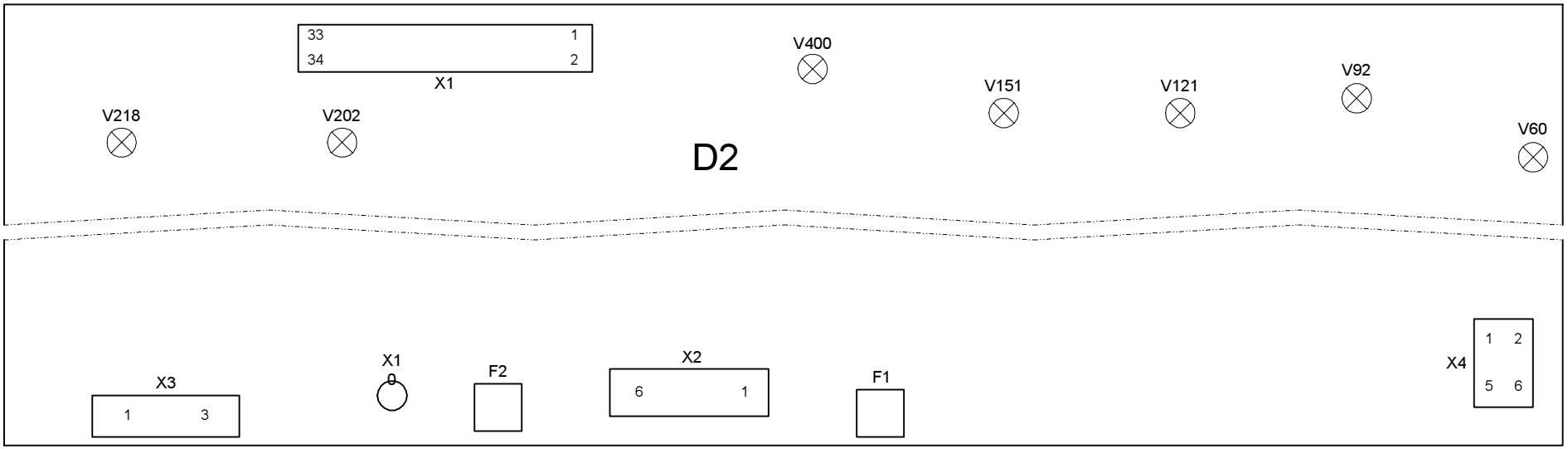
## Bauteilseite / *Component side*




## Leds / *Leds*

| | | |
|---|---|---|
| V60 | Grün / *green* | Gate Ansteuerung Hauptwechselrichter / *Gate drive main inverter* |
| V92 | Grün / *green* | Gate Ansteuerung Hauptwechselrichter / *Gate drive main inverter* |
| V121 | Grün / *green* | Gate Ansteuerung Hauptwechselrichter / *Gate drive main inverter* |
| V151 | Grün / *green* | Gate Ansteuerung Hauptwechselrichter / *Gate drive main inverter* |
| V202 | Grün / *green* | Gate Ansteuerung Heizkreiswechselrichter / *Gate drive filament inverter* |
| V218 | Grün / *green* | Gate Ansteuerung Heizkreiswechselrichter / *Gate drive filament inverter* |
| V400 | Rot / *red* | Zwischenkreisspannung vorhanden / *Intermediate circuit voltage available* |

## Stecker / *Plugs*

| | |
|---|---|
| X1 | Ansteuerung von D1 / *Control from D1* |
| X2 | Spannungsversorgung / *Power supply* |
| X3 | Heizkreis / *filament inverter* |
| X4 | Hauptwechselrichter / *Main inverter* |
| X10 | Masse / *Ground* |

## Sicherung / *Fuse*

| | |
|---|---|
| F1 | 10 Atr / *10A slow-blow* |
| F2 | 10 Atr / *10A slow-blow* |

D2 Leistungsplatine / *D2 Power board*

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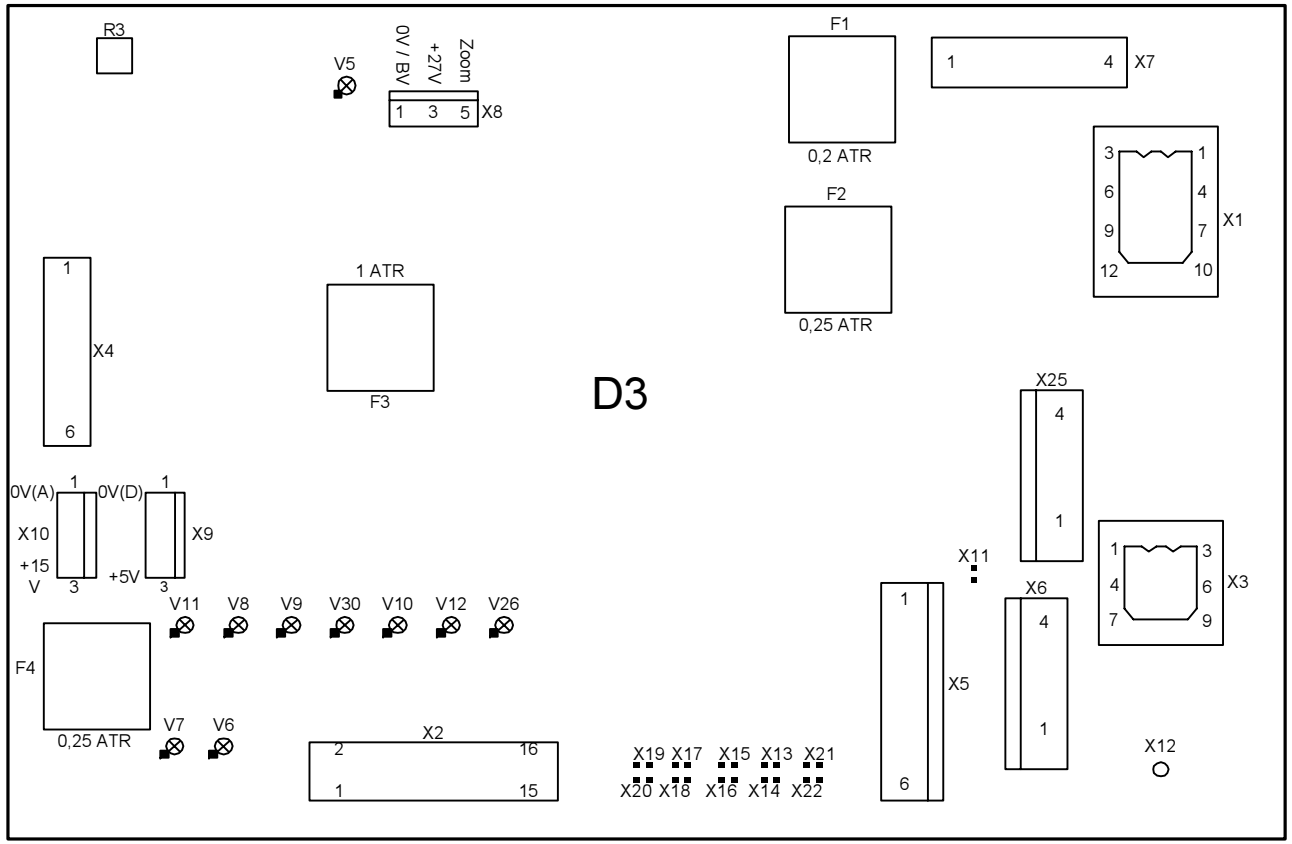


### Sicherungen / *fuses*

F1 0,2 ATR / *0.2 A slow-blow*
F2 0,25 ATR / *0.25 A slow-blow*
F3 1 ATR / *1 A slow-blow*
F4 0,25 ATR / *0.25 A slow-blow*

### Poti / *Pots*

R3 BV-Mini-Spannungsversorgung /
*Image intensifier mini power supply*

### Programmierung Brücken / *Programming for jumper*

X11 Brücke offen, Verbindung 0V (D) mit 0V (A)
*Jumper open, connection 0V (D) with 0V (A)*

X13 Brücke offen / *Jumper open*
X14 Brücke geschlossen / *Jumper closed*
X20 Brücke geschlossen / *Jumper closed*
X21 Brücke offen / *Jumper open*
X22 Brücke geschlossen / *Jumper closed*

X15 Brücke geschlossen / *Jumper closed*
X16 Brücke offen / *Jumper open*
X17 Brücke geschlossen / *Jumper closed*
X18 Brücke offen / *Jumper open*
X19 Brücke offen / *Jumper open*

### Stecker / *Plugs*

X1 Signalleitungen D1-D3 / *Signal cables D1-D3*
X2 C-Bogenkabel / *C-arm cable*
X3 SG-Wagen / *Trolley*
X4 Versorgungsspannungen D3 / *Supply voltages D3*
X5 Fusschalter / *Footswitch*
X6 Handschalter / *Manual switch*
X7 Hubmotor/ *Lift motor*
X8 Mess-Stecker BV-Mini Spannungsversorgung / *I.I mini power supply measuring plug*
X9 Mess-Stecker +5V / *Measuring plug +5V*
X10 Mess-Stecker +15V / *Measuring plug +15V*
X12 Erdanschluß / *Ground connection*
X25 Reserve / *Reserve*

### Leds / *Leds*

V5 Grün / *green* Spannung BV-Mini / *Image intensifier power supply*
V6 Grün / *green* Hubmotor heben / *Lifting motor up*
V7 Grün / *green* Hubmotor senken / *Lifting motor down*
V8 Grün / *green* Strahlung / *Radiation*
V9 Grün / *green* Hubmagnet / *Lifting magnet*
V10 Grün / *green* Fussschalter 1 / *Foot switch 1*
V11 Grün / *green* Laserlichtvisier / *Laser light localizer*
V12 Grün / *green* Handschalter / *Manual switch*
V26 Grün / *green* ATB-Taste / *ATB (store manual) key*
V30 Grün / *green* Fussschalter 2 / *Foot switch 2*

# D3 Schnittstellenplatine / *D3 Interface board*

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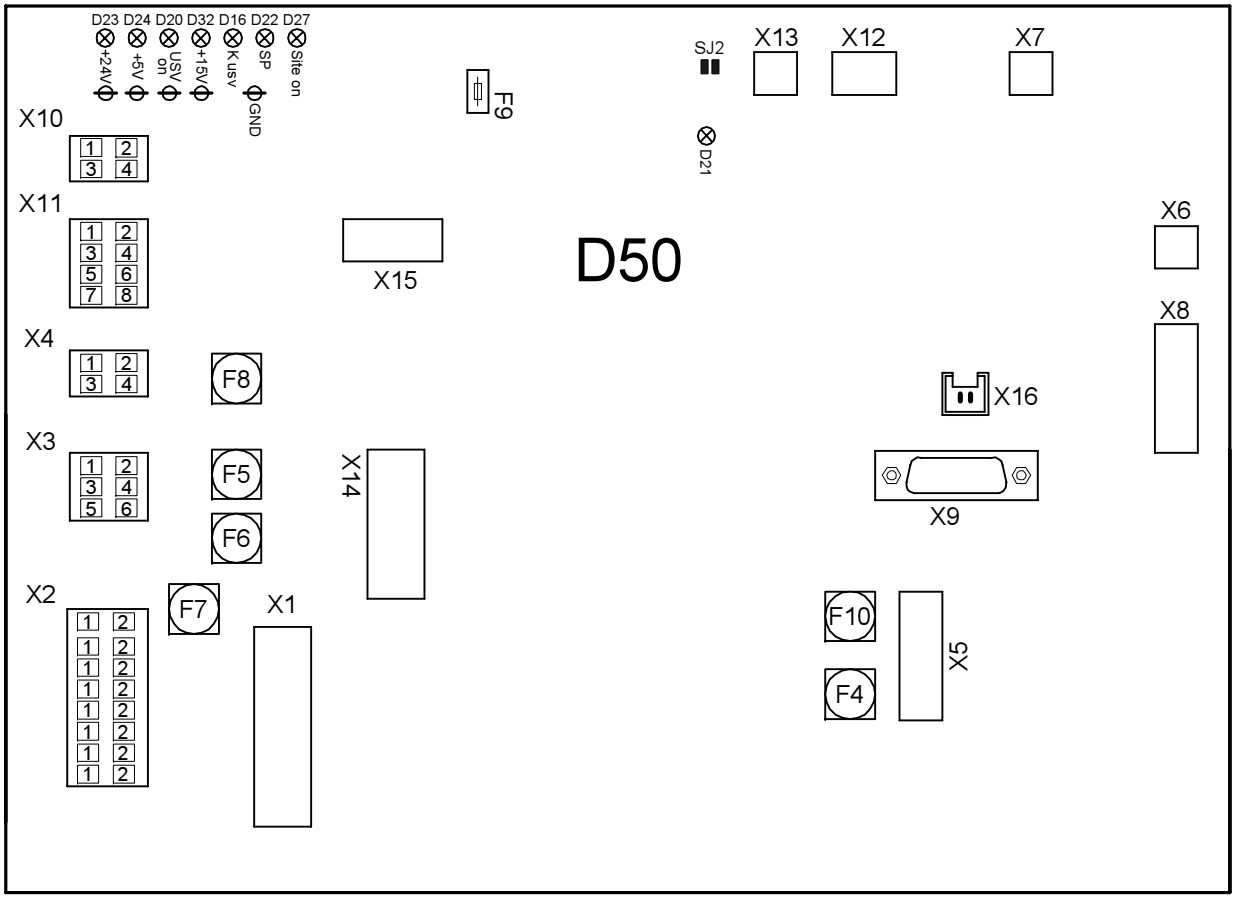


Einschaltplatine D50 / *Power on unit D50*

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| **Stecker / *Plug*** | **Funktion / *Function*** |
|---|---|
| X1 | Primäranschlüsse T1, T2 / *Primary connections T1, T2* |
| X2 | Spannung für Komponenten Trolley (230V~) / *Voltage for components trolley (230V~)* |
| X3 | Spannung Generator/Komponenten Chassis (200V~/230V~) / *Voltage for generator/components basic unit (200V~/230V~)* |
| X4 | Eingangsspannung USV (230V~) / *Input voltage ups (230V~)* |
| X5 | Sekundärspannungen T2 (19V~/7,5V~) / *secundary voltage T2 (19V~/7,5V~)* |
| X6 | Anlage ein/aus / *System on-off* |
| X7 | Strahlungsanzeige Trolley / *Radiation display* |
| X8 | Schnittstelle Chassis / *Interface basic unit* |
| X9 | Schnittstelle DVP3-Board / *Interface DVP3 board* |
| X10 | Externe Strahlungsanzeige / *Radiation display external* |
| X11 | Spannungsversorgung Bildsystem (230V~) / *Power for image system (230V~)* |
| X12 | Anlage und Bildsystem aus / *System and image system off* |
| X13 | +5V PS/2 / *+5V PS/2* |
| X14 | Sekundäranschlüsse T1 / *Secondary connections T1* |
| X15 | Sekundärschluss T2 (230V~) / *Secondary connection T2 (230V~)* |
| X16 | Weicheinschaltung T2 / *Soft switching on T2* |

| **Sicherung / *Fuse*** | **Funktion / *Function*** |
|---|---|
| F4 | 4 ATR / *4 A slow-blow* |
| F5 | 10 ATR / *10 A slow-blow* |
| F6 | 6,3 ATR / *6,3 A slow-blow* |
| F7 | 4 ATR / *4 A slow-blow* |
| F8 | 3 ATR / *3 A slow-blow* |
| F9 | 0,4 A (elektronische Sicherung) / *0,4 A (electronic fuse)* |
| F10 | 1 ATR / *1 A slow-blow* |

| **LED / *LED*** | | **Funktion / *Function*** |
|---|---|---|
| D16 | grün/*green* | Spannung Bildsystem / *voltage image system* |
| D20 | grün/*green* | Spannung USV / *Voltage ups* |
| D21 | grün/*green* | PS/2-Spannung (+5V) / *Voltage PS/2 (+5V)* |
| D22 | rot/*red* | Sperre Bildsystem / *Brake image system* |
| D23 | grün/*green* | Einschaltspannung +24V / *Power on control voltage +24V* |
| D24 | grün/*green* | Spannungsversorgung +5V / *Power supply +5V* |
| D27 | grün/*green* | Anlage ein (DVP3, site on) / *System on (DVP3, site on)* |
| D30 | grün/*green* | +15V aus Einschaltspannung +24V / *+15V from on switching voltage +24V* |

| **Messpunkte / *Test points*** | **Funktion / *Function*** |
|---|---|
| GND | Masse / *Ground* |
| +24V | Einschaltspannung +24V / *Power on control voltage +24V* |
| +5V | Spannungsversorgung +5V / *Power supply +5V* |
| USV on | Spannung USV (+5V) / *Voltage ups (+5V)* |
| +15V | +15V aus Einschaltspannung +24V / *+15V from on switching voltage +24V* |

Brücken / Jumpers

| | |
|---|---|
| SJ2 | offen; Sperre Bildsystem ~16s (Normalzustand) / *open, break imaging system ~16s (normal status)* |
| | geschlossen; Sperre Bildsystem ~10s / *closed, break imaging system ~10s* |

Einschaltplatine D50 / *Power on unit D50*

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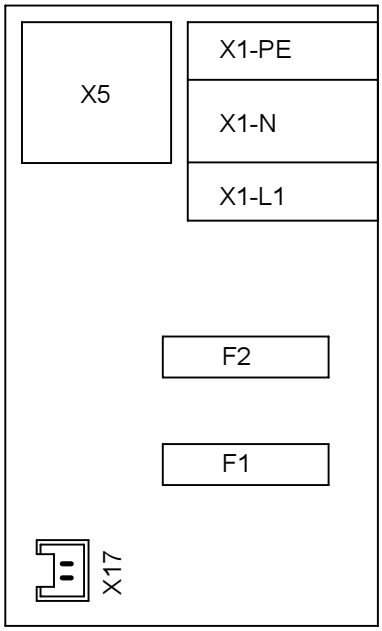
## Bauteilseite / *Component side*




| **Stecker / *Plug*** | **Funktion / *Function*** |
|---|---|
| X1 | Netzeingangsspannung / *Mains voltage* |
| X5 | Schutzleiterklemmen / *Ground clamps* |
| X17 | Weicheinschaltung T2 / *Soft switching on T2* |

| **Sicherung / *Fuse*** | **Funktion / *Function*** |
|---|---|
| F1 | 15ATR (200V~ bis 240V~), 20ATR (100V~ bis 127V~) / *15A slow-blow (200V~ to 240V~), 20A slow-blow (100V~ to 127V~)* |
| F2 | 15ATR (200V~ bis 240V~), 20ATR (100V~ bis 127V~) / *15A slow-blow (200V~ to 240V~), 20A slow-blow (100V~ to 127V~)* |

Einspeiseplatine D51 / *Main voltage input D51*

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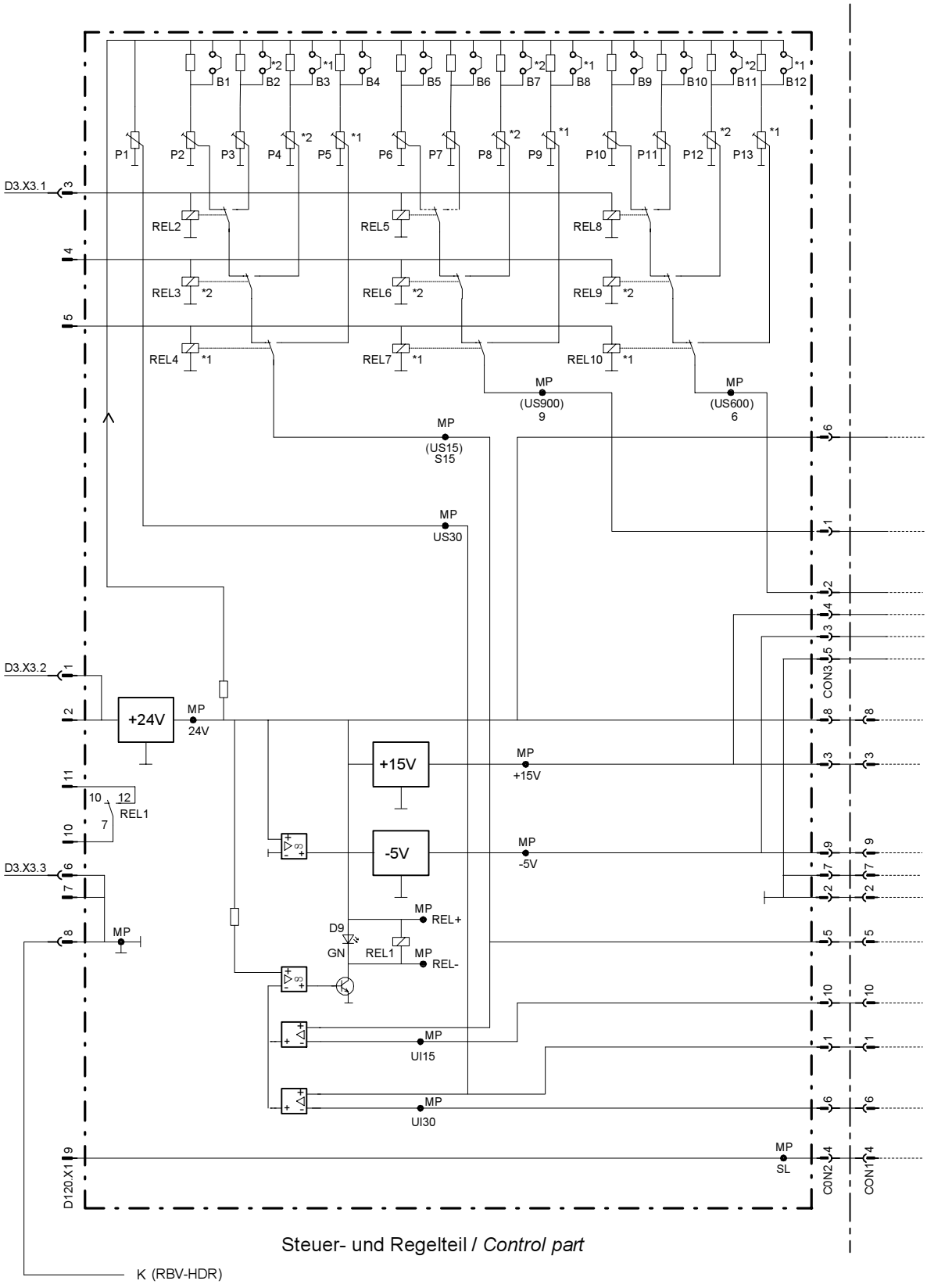


Steuer- und Regelteil / *Control part*

***1, *2** nicht bestückt / *no components inserted*

BV-Mini-Spannungsversorgung / *I.I. mini power supply*

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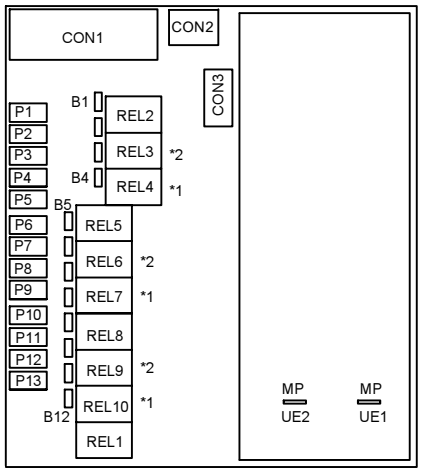
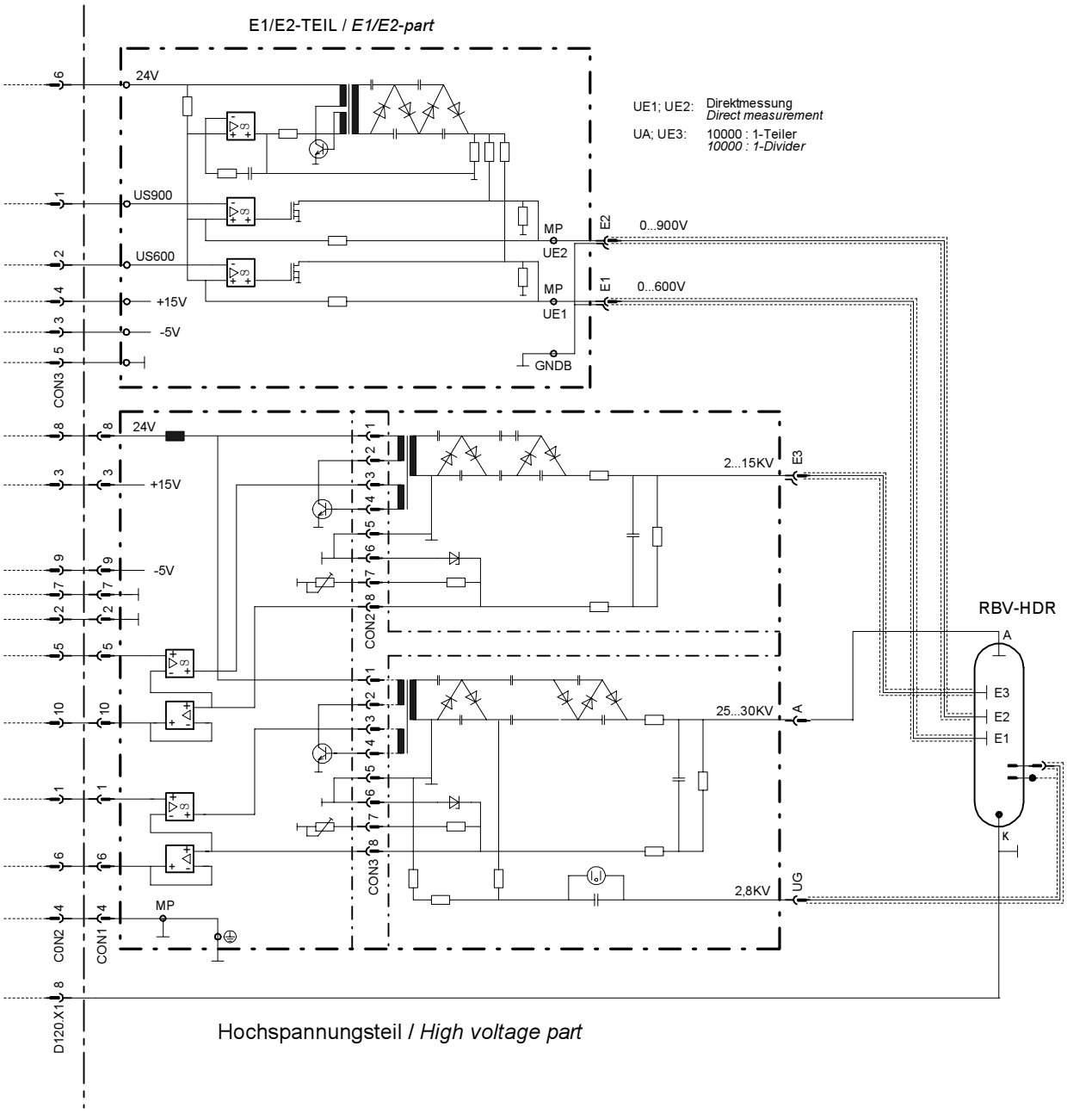
| | | |
|---|---|---|
| B1..B12 | geschlossen: | Voller Einstellbereich |
| | *closed:* | *Full adjustement range* |
| B1..B12 | offen: | Nur unterer Einstellbereich |
| | *open:* | *Only lower adjustement range* |

| | | |
|---|---|---|
| $U_{Ad}$ | Sollwert | *set point* |
| $U_{E3}$ | Sollw.-Grundstellung | *set point - basic* |
| $U_{E3}$ | Sollw.-Zoom 1 | *set point - zoom 1* |
| $U_{E3}$ | Sollw.-Zoom 2 | *set point - zoom 2* |
| $U_{E3}$ | Sollw.-Zoom 3 | *set point - zoom 3* |
| $U_{E2}$ | Sollw.-Grundstellung | *set point - basic* |
| $U_{E2}$ | Sollw.-Zoom 1 | *set point - zoom 1* |
| $U_{E2}$ | Sollw.-Zoom 2 | *set point - zoom 2* |
| $U_{E2}$ | Sollw.-Zoom 3 | *set point - zoom 3* |
| $U_{E1}$ | Sollw.-Grundstellung | *set point - basic* |
| $U_{E1}$ | Sollw.-Zoom 1 | *set point - zoom 1* |
| $U_{E1}$ | Sollw.-Zoom 2 | *set point - zoom 2* |
| $U_{E1}$ | Sollw.-Zoom 3 | *set point - zoom 3* |




***1, *2** nicht bestückt / *no components inserted*




Hochspannungsteil / *High voltage part*

# BV-Mini-Spannungsversorgung / *l.l. mini power supply*

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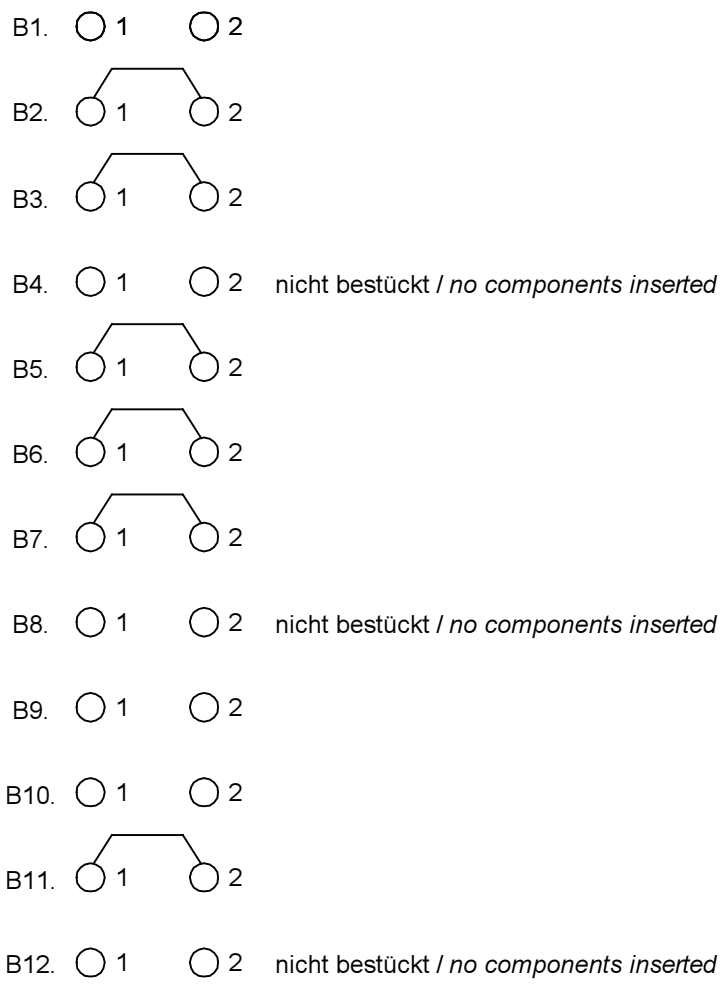
## Potis / *Pots*

| | | |
|---|---|---|
| P1 | $U_{AD}$ | Sollwert / *Reference value* |
| P2 | $U_{E3}$ | Sollwert-Grundeinstellung / *Basic reference value position* |
| P3 | $U_{E3}$ | Sollwert-Zoom 1 / *Reference value zoom 1* |
| P4 | $U_{E3}$ | Sollwert-Zoom 2 / *Reference value zoom 2* |
| P5 | | nicht bestückt / no components inserted |
| P6 | $U_{E2}$ | Sollwert-Grundeinstellung / *Basic reference value position* |
| P7 | $U_{E2}$ | Sollwert-Zoom 1 / *Reference value zoom 1* |
| P8 | $U_{E2}$ | Sollwert-Zoom 2 / *Reference value zoom 2* |
| P9 | | nicht bestückt / no components inserted |
| P10 | $U_{E1}$ | Sollwert-Grundeinstellung / *Basic reference value position* |
| P11 | $U_{E1}$ | Sollwert-Zoom 1 / *Reference value zoom 1* |
| P12 | $U_{E1}$ | Sollwert-Zoom 2 / *Reference value zoom 2* |
| P13 | | nicht bestückt / *no components inserted* |

## Jumperübersicht / *Jumper overview*

23D-C


B1. 1 2
B2. 1 2
B3. 1 2
B4. 1 2 nicht bestückt / no components inserted
B5. 1 2
B6. 1 2
B7. 1 2
B8. 1 2 nicht bestückt / no components inserted
B9. 1 2
B10. 1 2
B11. 1 2
B12. 1 2 nicht bestückt / no components inserted

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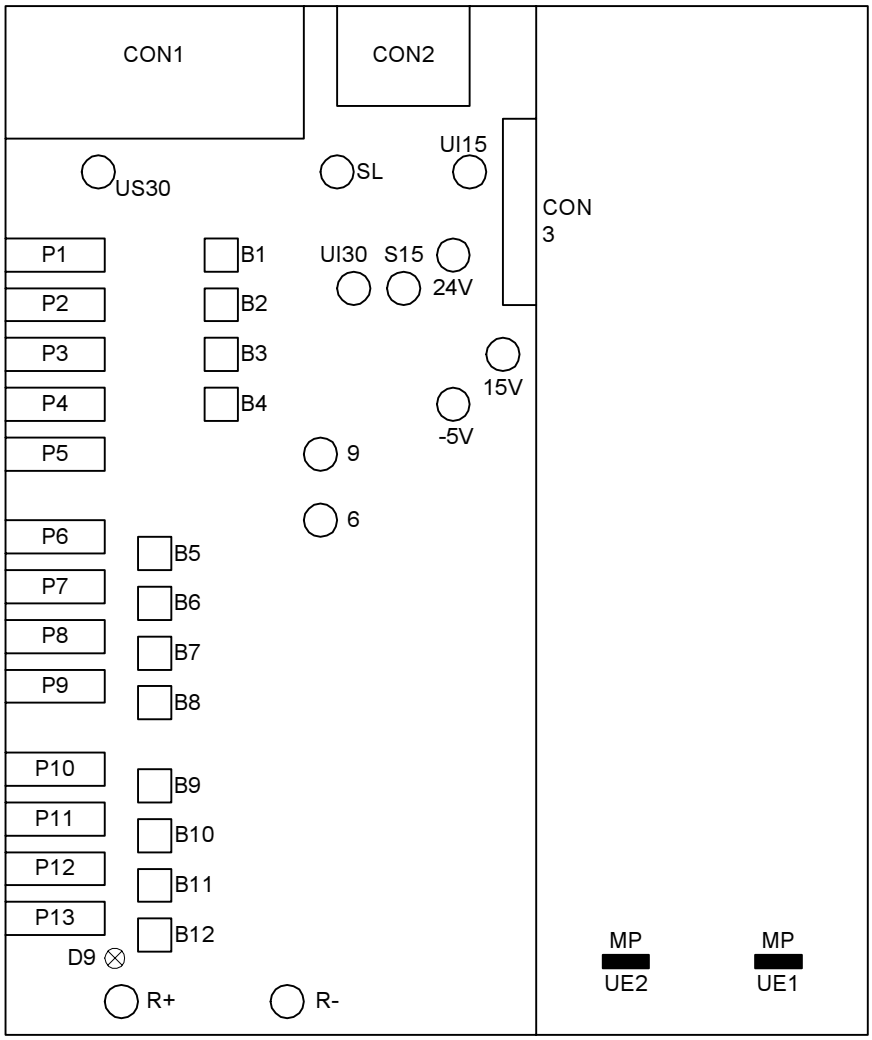
## Leds / *Leds*

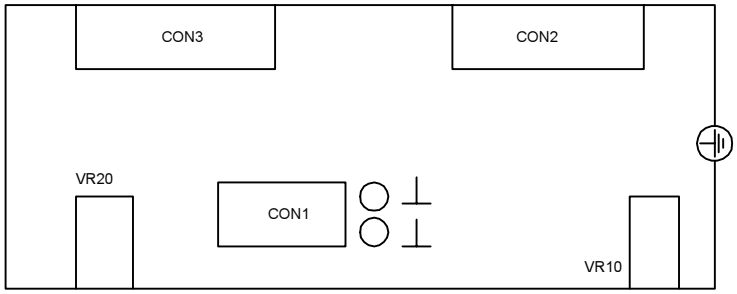
D9 grün / *green* on = Funktion o.k. Ausgangsspannung Überwachung Anode E3 / *Voltage regulator, reference value generator control*

## Messpunkte / *Test points*

R+
R- } Überwachungs-Funktion REL1 / *Control function REL1*

## Bauteilseite / *Component side*




BV-Mini-Spannungsversorgung / *l.l. mini power supply*

**ARCADIS Varic G2266 - 41A - 1**

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Erzeugnis:
*Product:*

# ARCADIS VARIC

Baugruppe /
*Assembly group*

Schaltungsunterlage / circuit diagramm } **G 2266**

| Index Rev. | A 01 | B 01 | C 01 |
|---|---|---|---|
| D1 30 99 780 G2266 | X | X | X |
| D2 30 99 525 G5437 | X | X | X |
| D3 30 99 541 G5437 | X | X | X |
| D40 30 98 568 G5429 | X | X | X |

X = Liefereinsatz / *beginning of delivery*

○ = Nachträglicher Einbau möglich / *subsequent installation possible*

● = Kombination unzulässig / *Combination illegal*

Kompatibilitätsliste
*Compatibility list*

- generated automatically by SAP system **P41** -

Appendix to Document: **8080017 EFS 01S 02**
Sheet generated at : **2005-07-15T16:10:47-02:00**
Originator : **SIEMENS Medical Solutions, P41**

Signatures related to this document and performed in SAP:

| Meaning | system date and time | given name, surname of signee |
|---|---|---|
| **AUTHOR** | **2005-07-14T07:59:40-02:00** | **Singer, Johann** |
| **APPROVAL** | **2005-07-15T16:10:20-02:00** | **Muehlhaeuser, Matthias** |